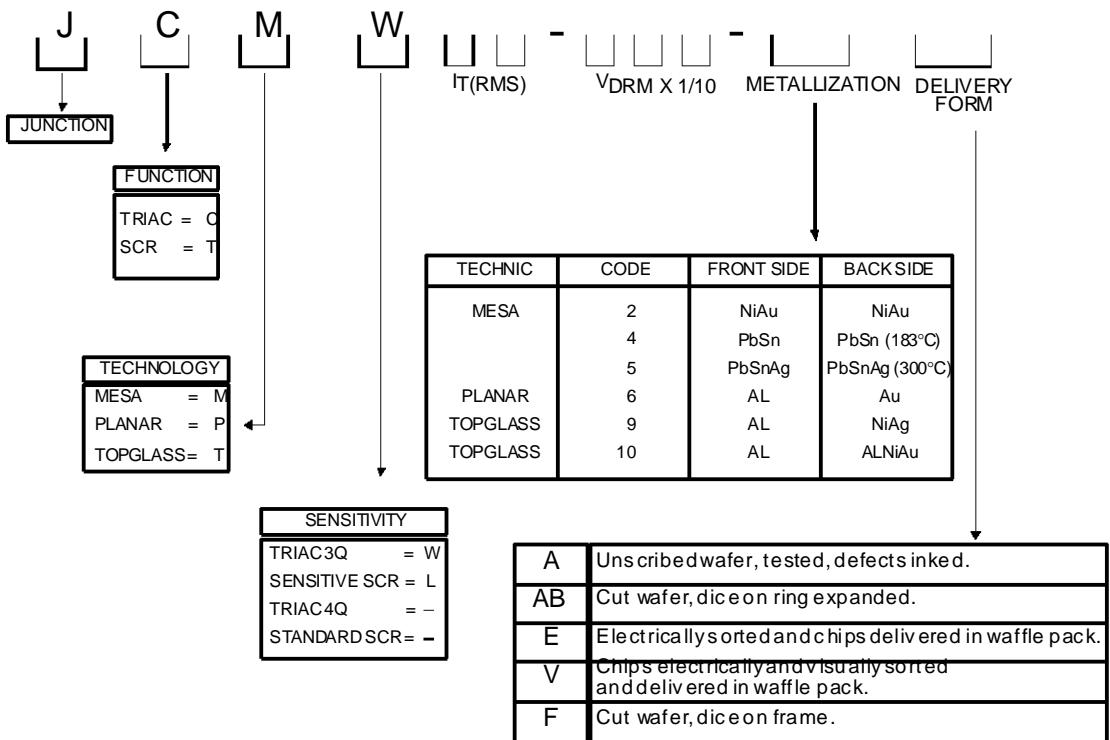


## SCR's AND TRIACS

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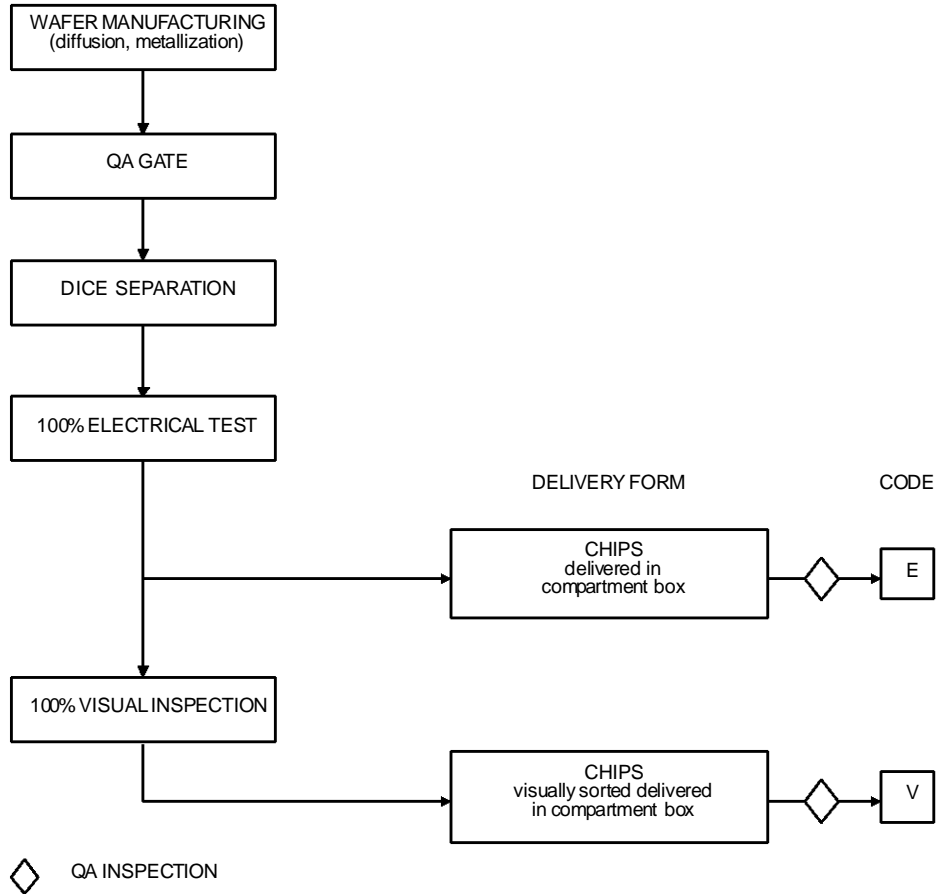
**DICE**

# NEW CODIFICATION



# MANUFACTURING FLOW CHART

## MESA TECHNOLOGY

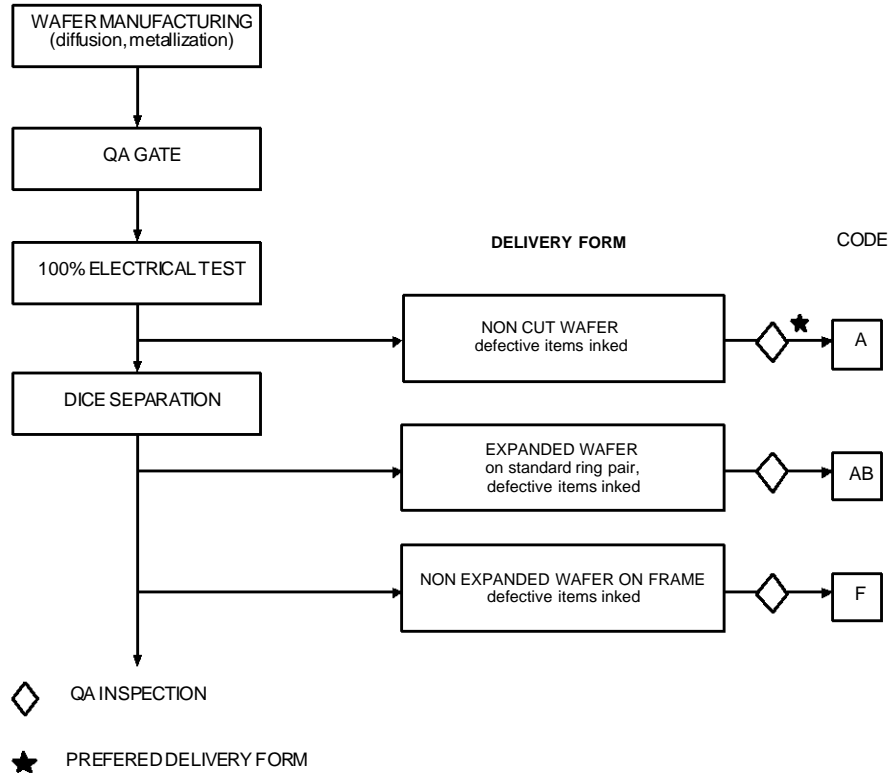


QA inspection is done through sampling for all batches :

SUBGROUP	SAMPLING LEVEL	AQL
VISUAL / MECHANICAL	II	0.40
ELECTRICAL AT 25°C	II	0.40

# MANUFACTURING FLOW CHART

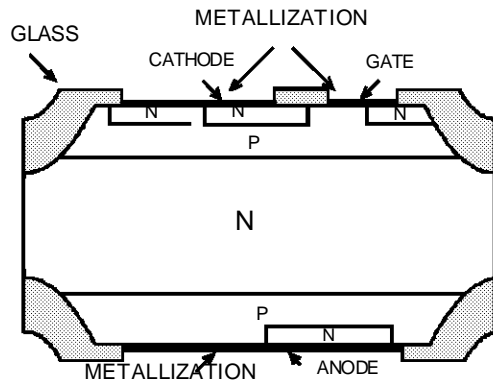
## PLANAR AND TOPGLASS TECHNOLOGIES



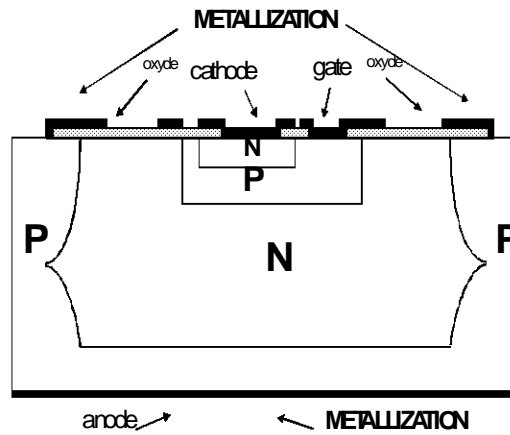
QA inspection is done through sampling for all batches :

SUBGROUP	SAMPLING LEVEL	AQL
VISUAL / MECHANICAL	II	0.40
ELECTRICAL AT 25°C	II	0.40

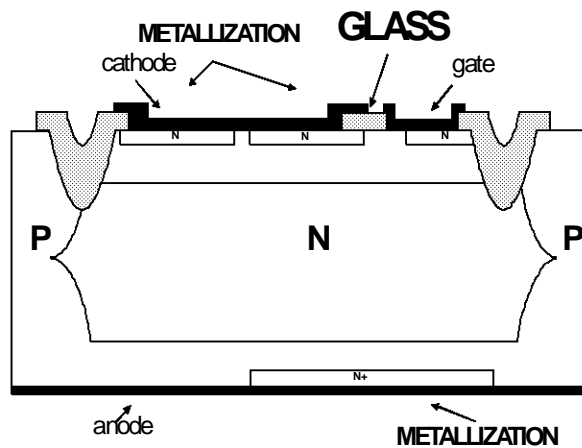
MESA TECHNOLOGY



PLANAR TECHNOLOGY



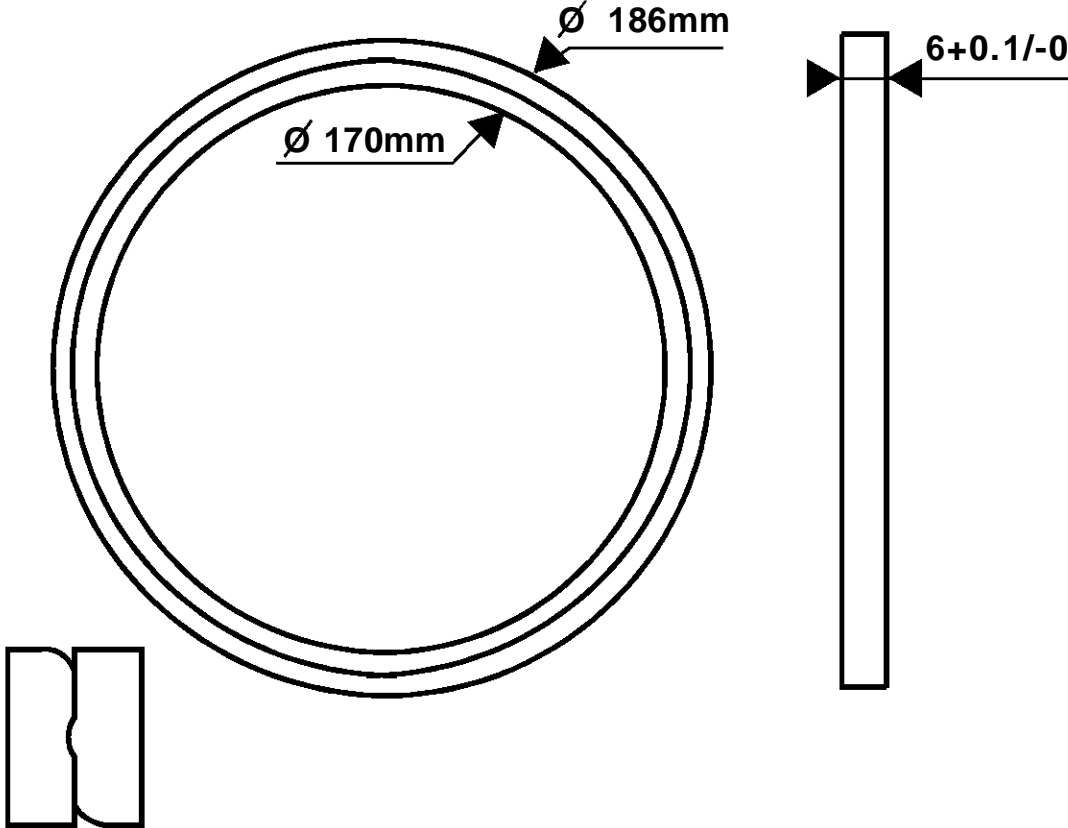
TOPGLASS TECHNOLOGY



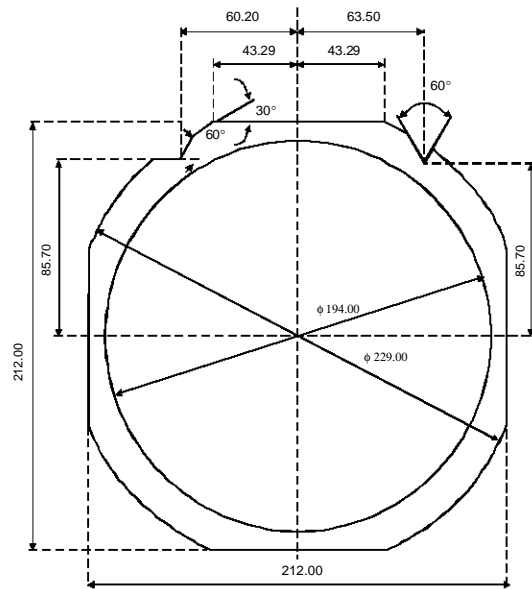
**DRAWING**

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**RING PAIR (AB code)**

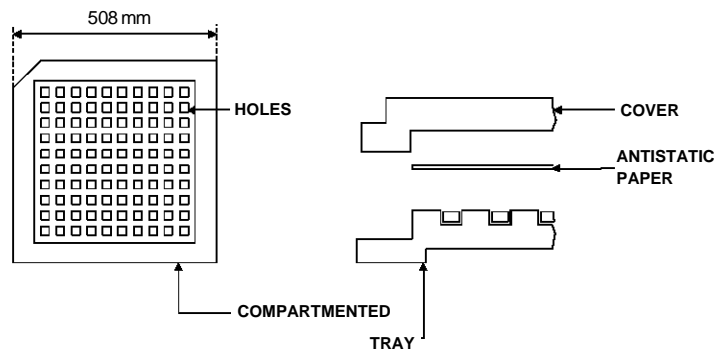


**FRAME (F code) - Dimensions in millimeters**



**COMPARTMENT BOX (V, E code)**

COVER



# TRIACS

## TECHNOLOGY : MESAGLASS

$I_{T(MS)}$ (A)	$V_{DRM}=V_{RRM}$ (V)	200	400	600	800	1000
8		JCM-08				
		JCMW08				
10		JCM-10				
		JCMW10				
12		JCM-12				
		JCMW12				
16		JCM-16				
		JCMW16				
25		JCM-25				
		JCMW25				
40		JCM-40				
		JCMW40				
60		JCM-60				
		JCMW60				

## TECHNOLOGY : TOPGLASS

$I_{T(RMS)}$ (A)	$V_{DRM}=V_{RRM}$ (V)	200	400	600
4		JCT-04		
		JCTW04		
8		JCTW08		
		JCTW12		
12		JCTW16		
		JCTW20		

NOTE : Leakage currents are specified at 50 lux max luminous intensity and at 60% hr max.  
For types with  $V_{DRM} / V_{RRM} = 1000$  V,  $I_{DRM} / I_{RRM}$  are specified on coated chips.

TECHNOLOGY : MESAGLASS

$I_{T(RMS)}$ (A)	$V_{DRM}=V_{RRM}$ (V)	100	200	400	600	800	1000	1200	
3		JTML 03							
4		JTM-04							
10		JTM-10							
16		JTM-16							
20		JTM-20							
30		JTM-30							
45		JTM-45							
70		JTM-70							

TECHNOLOGY : PLANAR / TOPGLASS

$I_{T(RMS)}$ (A)	$V_{DRM}=V_{RRM}$ (V)	200	400	600
1		JTPL01		
2		JTTL02		
4		JTTL04		

NOTE : Leakage currents are specified at 50 lux max luminous intensity and at 60% hr max.  
 For types with  $V_{DRM} / V_{RRM} = 1000$  V,  $I_{DRM} / I_{RRM}$  are specified on coated chips.

# TRIACS FOUR QUADRANTS

TYPES	$V_{DRM}$ = $V_{RRM}$ $T_J=125^\circ C$ (V)	$I_{TSM}$ max (1) $T_P=10ms$ (A)	$I_{GT}$ max (1) QI QII QIII QIV (mA)				$V_{TM}@I_{TM}$ max (1) (V) (A)		dv/dt min at $0.67 \times V_{DRM}$ $T_J=125^\circ C$ (V/ $\mu s$ )	(di/dt)c typ $T_J=125^\circ C$ (A/ms)	DICE		
											Thick.	Dim.	Metal.
											$\mu m$	(mm) D1xD2	

$I_{T(RMS)} : 8A$   $I_{DRM}/I_{RRM}=10 \mu A$  max  $T_J=25^\circ C$

JCM-08-020	200	80	50	50	50	100	1.8	11	100	4.5	200-600	3x3	2*-4-5 See § Metalli.
JCM-08-040	400												
JCM-08-060	600												
JCM-08-080	800												

$I_{T(RMS)} : 10A$   $I_{DRM}/I_{RRM}=10 \mu A$  max  $T_J=25^\circ C$

JCM-10-020	200	100	50	50	50	100	1.7	14	100	5.5	200-600	3.3x3.3	2*-4-5 See § Metalli.
JCM-10-040	400												
JCM-10-060	600												
JCM-10-080	800												

$I_{T(RMS)} : 12A$   $I_{DRM}/I_{RRM}=10 \mu A$  max  $T_J=25^\circ C$

JCM-12-020	200	120	50	50	50	100	1.7	17	100	6.5	200-600	3.5x3.5	2*-4-5 See § Metalli.
JCM-12-040	400												
JCM-12-060	600												
JCM-12-080	800												

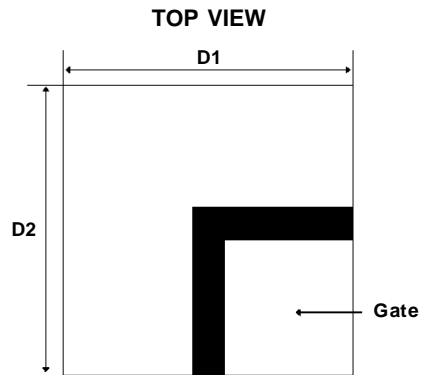
$I_{T(RMS)} : 16A$   $I_{DRM}/I_{RRM}=10 \mu A$  max  $T_J=25^\circ C$

JCM-16-020	200	160	50	50	50	100	1.8	22.5	200	8.5	200-600	4x4	2*-4-5 See § Metalli.
JCM-16-040	400												
JCM-16-060	600												
JCM-16-080	800												

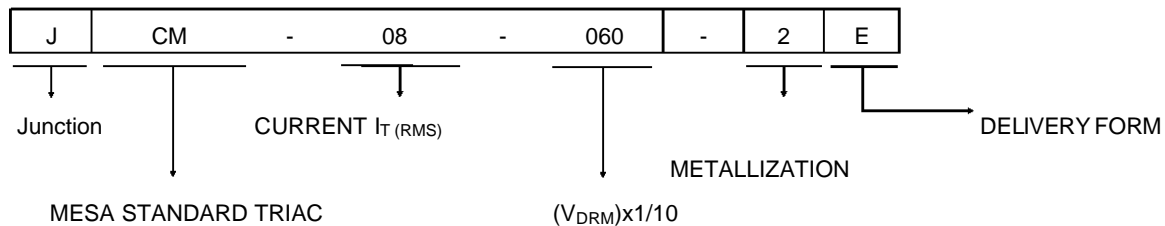
(1) :  $T_J = 25^\circ C$

\* = Preferred

TECHNOLOGY	MESA	
DELIVERY FORM	E	V
PACKAGING	X	X
Base Qty		
3 x 3	500 pcs	
3.3 x 3.3	500 pcs	
3.5 x 3.5	500 pcs	
4 x 4	320 pcs	



Example :



## TRIACS FOUR QUADRANTS

TYPES	V <sub>DRM</sub> = V <sub>RRM</sub> T <sub>J</sub> = 125°C (V)	I <sub>TSM</sub> max (1) T <sub>P</sub> =10ms (A)	I <sub>GT</sub> max (1) QI QII QIII QIV (mA)	V <sub>TM</sub> @I <sub>TM</sub> max (1) (V) (A)	dv/dt min at 0.67xV <sub>DRM</sub> T <sub>J</sub> =125°C (V/μs)	(di/dt) <sub>c</sub> typ T <sub>J</sub> = 125°C (A/ms)	DICE		
							Thick.	Dim.	Metal.
							μm	(mm) D1xD2	

I<sub>T(RMS)</sub> : 25A I<sub>DRM</sub>/I<sub>RRM</sub>=20 μA max T<sub>J</sub>=25°C

JCM-25-020	200	250	100 100 100 150	2	35	200	13.5	200-600	5.0x5.0	2*-4-5 See § Metal.
JCM-25-040	400									
JCM-25-060	600									
JCM-25-080	800									

I<sub>T(RMS)</sub> : 40A I<sub>DRM</sub>/I<sub>RRM</sub>=20 μA max T<sub>J</sub>=25°C

JCM-40-020	200	300	100 100 100 150	2	60	200	21.5	200-600	6.35x6.35	2*-4-5 See § Metal.
JCM-40-040	400									
JCM-40-060	600									
JCM-40-080	800									

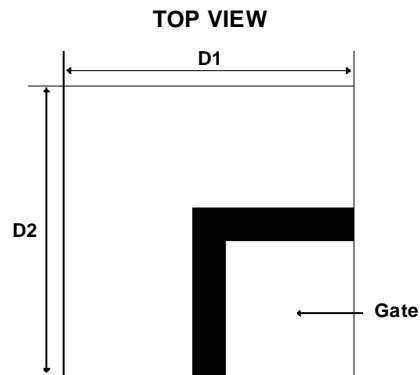
I<sub>T(RMS)</sub> : 60A I<sub>DRM</sub>/I<sub>RRM</sub>=20 μA max T<sub>J</sub>=25°C

JCM-60-020	200	500	100 100 100 150	2	100	200	32	200-600	8.5x8.5	2-4-5* See § Metal.
JCM-60-040	400									
JCM-60-060	600									
JCM-60-080	800									

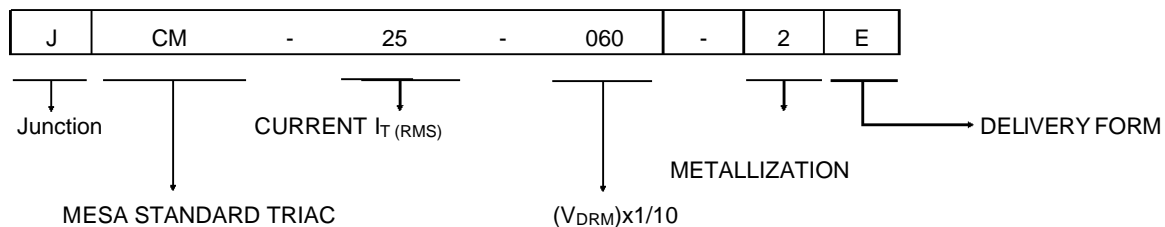
(1) : T<sub>J</sub> = 25°C

\* = Preferred

TECHNOLOGY	MESA	
DELIVERY FORM	E	V
PACKAGING	X	X
Base Qty		
5.0 x 5.0	245 pcs	
6.35 x 6.35	180 pcs	
8.5 x 8.5	80 pcs	



Example :



### THREE QUADRANTS SNUBBERLESS TRIACS

TYPES	$V_{DRM}$ = $V_{RRM}$ $T_J = 125^\circ\text{C}$ (V)	$I_{TSM}$ max (1) $T_P = 10\text{ms}$ (A)	$I_{GT}$ max (1) QI QII QIII (mA)			$V_{TM}@I_{TM}$ max (1) (V) (A)		dv/dt min at $0.67 \times V_{DRM}$ $T_J = 125^\circ\text{C}$ (V/ $\mu\text{s}$ )	(di/dt)c typ $T_J = 125^\circ\text{C}$ (A/ms)	DICE		
										Thick.	Dim.	Metal.
										$\mu\text{m}$	(mm) D1xD2	

$I_{T(RMS)} : 8\text{A}$   $I_{DRM}/I_{RRM} = 10 \mu\text{A}$  max  $T_J = 25^\circ\text{C}$

JCMW08-020	200	80	50 50 50	1.8	11	500	7	200-600	3.0x3.0	2*-4-5 See § Metal.
JCMW08-040	400									
JCMW08-060	600									
JCMW08-060	800									

$I_{T(RMS)} : 10\text{A}$   $I_{DRM}/I_{RRM} = 10 \mu\text{A}$  max  $T_J = 25^\circ\text{C}$

JCMW10-020	200	100	50 50 50	1.75	14	500	9	200-600	3.3x3.3	2*-4-5 See § Metal.
JCMW10-040	400									
JCMW10-060	600									
JCMW10-060	800									

$I_{T(RMS)} : 12\text{A}$   $I_{DRM}/I_{RRM} = 10 \mu\text{A}$  max  $T_J = 25^\circ\text{C}$

JCMW12-020	200	120	100 100 100	1.8	17	500	12	200-600	3.5x3.5	2*-4-5 See § Metal.
JCMW12-040	400									
JCMW12-060	600									
JCMW12-060	800									

$I_{T(RMS)} : 16\text{A}$   $I_{DRM}/I_{RRM} = 10 \mu\text{A}$  max  $T_J = 25^\circ\text{C}$

JCMW16-020	200	160	100 100 100	1.7	22.5	500	14	200-600	4x4	2*-4-5 See § Metal.
JCMW16-040	400									
JCMW16-060	600									
JCMW16-060	800									

$I_{T(RMS)} : 25\text{A}$   $I_{DRM}/I_{RRM} = 20 \mu\text{A}$  max  $T_J = 25^\circ\text{C}$

JCMW25-020	200	250	150 150 150	2	35	500	25	200-600	5.0x5.0	2*-4-5 See § Metal.
JCMW25-040	400									
JCMW25-060	600									
JCMW25-060	800									
JCMW25-100	1000									

$I_{T(RMS)} : 40\text{A}$   $I_{DRM}/I_{RRM} = 20 \mu\text{A}$  max  $T_J = 25^\circ\text{C}$

JCMW40-020	200	300	150 150 150	2	60	500	40	200-600	6.35x6.35	2-4-5* See § Metal.
JCMW40-040	400									
JCMW40-060	600									
JCMW40-060	800									
JCMW40-100	1000									

$I_{T(RMS)} : 60\text{A}$   $I_{DRM}/I_{RRM} = 20 \mu\text{A}$  max  $T_J = 25^\circ\text{C}$

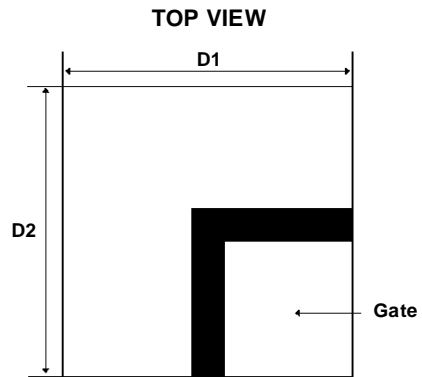
JCMW60-020	200	500	200 200 200	2	100	500	60	200-600	8.5x8.5	2-4-5* See § Metal.
JCMW60-040	400									
JCMW60-060	600									
JCMW60-060	800									
JCMW60-100	1000									

(1) :  $T_J = 25^\circ\text{C}$

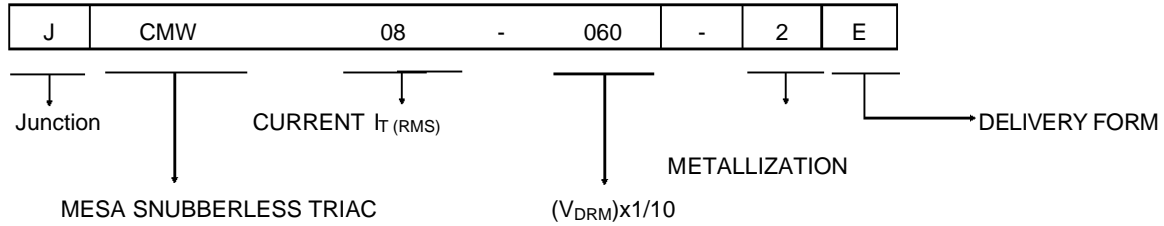
\* = Preferred

## THREE QUADRANTS SNUBBERLESS TRIACS

TECHNOLOGY	MESA	
DELIVERY FORM	E	V
PACKAGING	X	X
Base Qty		
3.0 x 3.0	500 pcs	
3.3 x 3.3	500 pcs	
3.5 x 3.5	500 pcs	
4.0 x 4.0	320 pcs	
5.0 x 5.0	245 pcs	
6.35 x 6.35	180 pcs	
8.5 x 8.5	80 pcs	
Base Qty	Multiple of min Qty and always $\geq 500$ pcs	



Example :



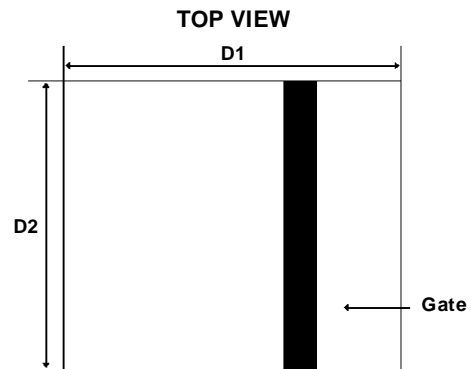
## SENSITIVE TRIACS FOUR QUADRANTS

TYPES	V <sub>DRM</sub> = V <sub>RRM</sub> T <sub>J</sub> = 125°C (V)	I <sub>TSM</sub> max (1) T <sub>P</sub> =10ms (A)	I <sub>GT</sub> max (1) QI QII QIII QIV (mA)				V <sub>TM</sub> @I <sub>TM</sub> max (1) (V) (A)		dv/dt Rgk = 1KΩ Typ at 0.67xV <sub>DRM</sub> T <sub>J</sub> = 125°C (V/μs)	(di/dt) <sub>c</sub> typ T <sub>J</sub> = 125°C (A/ms)	DICE		
			Thick.	Dim.	Metal.								
											μm typ.	(mm) D1xD2	

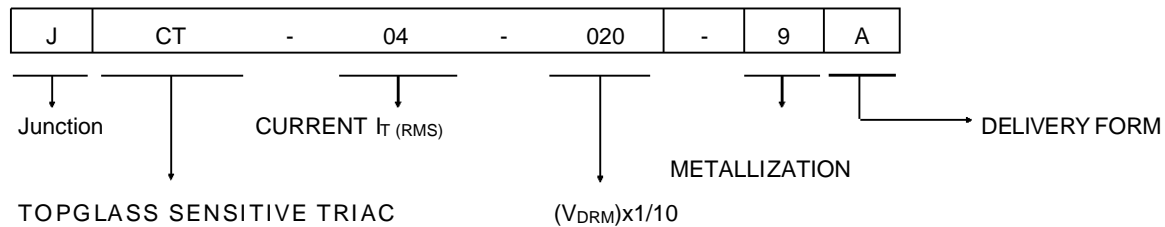
I<sub>T(RMS)</sub> : 4A I<sub>DRM</sub>/I<sub>RRM</sub>=10 μA max R<sub>GK</sub> = 1KΩ T<sub>J</sub> = 25°C

JCT-04-020	200												
JCT-04-040	400	20	10	10	10	10	2	5.5	100	1.8	210	2x1.6	9
JCT-04-060	600												

TECHNOLOGY	TOPGLASS		
DELIVERY FORM	A	AB	F
Max Qty per wafer Ø 4"	2055		
Base unit of delivery	1 wafer		



**Example :**

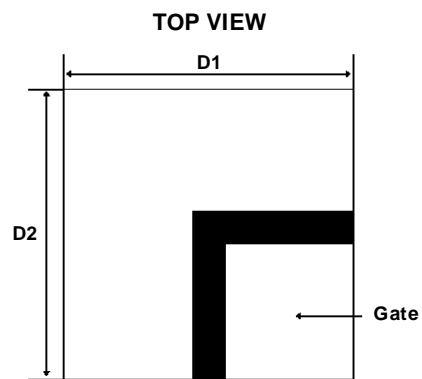


## THREE QUADRANTS SNUBBERLESS TRIACS

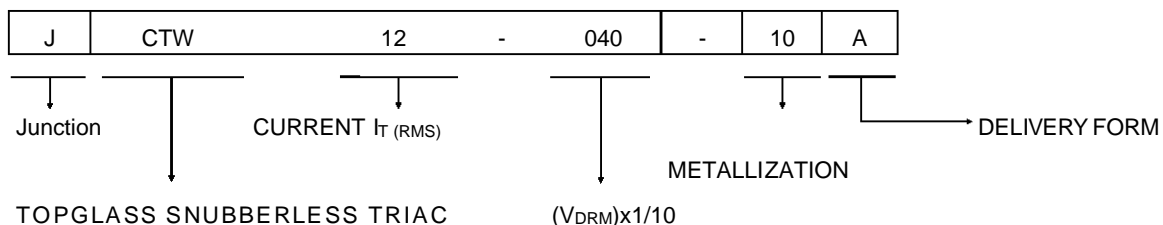
TYPES	V <sub>DRM</sub> = V <sub>RRM</sub> T <sub>j</sub> = 125°C (V)	I <sub>TSM</sub> max (1) T <sub>P</sub> =10ms (A)	I <sub>GT</sub> max (1) QI QII QIII (mA)			V <sub>TM</sub> @I <sub>TM</sub> min (1) (2) (V) (A)	dv/dt min at 0.67xV <sub>DRM</sub> T <sub>j</sub> =125°C (V/μs)	(di/dt) <sub>c</sub> typ T <sub>j</sub> = 125°C (A/ms)	DICE		
									Thick. μm typ.	Dim. (mm) D1xD2	Metal.
I <sub>T(RMS)</sub> : 4A I <sub>DRM</sub> /I <sub>RRM</sub> =10 μA max T <sub>J</sub> =25°C											
JCTW04-040 JCTW04-060	400 600	30	35	35	35	1.75 5.5	250	3.5	240	2.6x2.6	10
I <sub>T(RMS)</sub> : 8A I <sub>DRM</sub> /I <sub>RRM</sub> =10 μA max T <sub>J</sub> =25°C											
JCTW08-040 JCTW08-060	400 600	60	35	35	35	1.75 11	250	9	240	3.2x3.2	10
I <sub>T(RMS)</sub> : 12A I <sub>DRM</sub> /I <sub>RRM</sub> =10 μA max T <sub>J</sub> =25°C											
JCTW12-040 JCTW12-060	400 600	100	3.5	35	35	1.60 17	250	13	240	3.75x3.75	10
I <sub>T(RMS)</sub> : 16A I <sub>DRM</sub> /I <sub>RRM</sub> =10 μA max T <sub>J</sub> =25°C											
JCTW16-040 JCTW16-060	400 600	120	35	35	35	1.60 22.5	250	17	240	4.2x4.2	10
I <sub>T(RMS)</sub> : 20A I <sub>DRM</sub> /I <sub>RRM</sub> =10 μA max T <sub>J</sub> =25°C											
JCTW20-040 JCTW20-060	400 600	160	35	35	35	1.70 28	250	22	240	4.5x4.5	10

(1) : T<sub>J</sub> = 25°C

TECHNOLOGY	TOPGLASS		
DELIVERY FORM	A	AB	F
Max. Qty per wafer Ø 4"			
2.6x2.6	984		
3.2x3.2	648		
3.75x3.75	466		
4.2x4.2	363		
4.5x4.5	312		
Base unit of delivery	1 wafer		



**Example :**



## SENSITIVE SCR's

TYPES	$V_{DRM}$ = $V_{RRM}$ $T_J=110^\circ\text{C}$ (V)	$I_{TSM}$ max (1) $T_P=10\text{ms}$ (A)	$I_{GT}$ max (1) (mA)	$V_{TM}@I_{TM}$ max (1) (V) (A)	$dv/dt$ typ at $0.67 \times V_{DRM}$ $T_J=110^\circ\text{C}$ (V/ $\mu\text{s}$ )
-------	--	--	--------------------------------	--	--

DICE		
Thick.	Dim.	Metal.
$\mu\text{m}$	(mm) D1xD2	

$I_{T(RMS)} : 3\text{A}$   $I_{DRM}/I_{RRM}=10 \mu\text{A max}$   $R_{GK}=1\text{k}\Omega$   $T_J=25^\circ\text{C}$

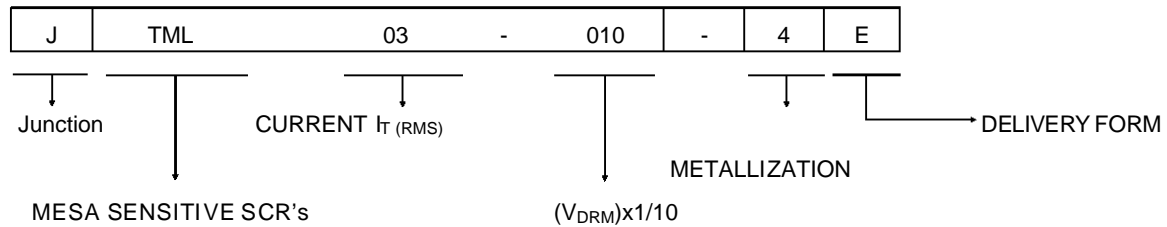
JTML03-010	100					
JTML03-020	200	30	0.2	1.8	6	10
JTML03-040	400					
JTML03-060	600					

200-600	2.54X1.8	4 See § Metal.
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(1) :  $T_J = 25^\circ\text{C}$

TECHNOLOGY	MESA	
DELIVERY FORM	E	V
Base Qty	770 pcs	
2.54 x 1.8		

Example :



## STANDARD SCR's

TYPES	$V_{DRM}$ = $V_{RRM}$	$I_{TSM}$ max (1)	$I_{GT}$ max (1)	$V_{TM}@I_{TM}$		$dv/dt$
	$T_J=125^\circ C$ (V)	$T_P=10ms$ (A)	(mA)	max (1)	(V) (A)	min at $0.67 \times V_{DRM}$ $T_J=125^\circ C$ (V/ $\mu s$ )

DICE		
Thick.	Dim.	Metal.
$\mu m$	(mm) D1xD2	

$I_{T(RMS)} : 4A$   $I_{DRM}/I_{RRM}=10 \mu A$  max  $T_J=25^\circ C$

JTM-04-020	200	40	25	1.8	8	100
JTM-04-040	400					
JTM-04-060	600					
JTM-04-080	800					

200-600	2.6X2.6	2*-4-5 See § Metal.
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$I_{T(RMS)} : 10A$   $I_{DRM}/I_{RRM}=10 \mu A$  max  $T_J=25^\circ C$

JTM-10-020	200	100	25	1.8	20	100
JTM-10-040	400					
JTM-10-060	600					
JTM-10-080	800					

200-600	2.8x2.8	2*-4-5 See § Metal.
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$I_{T(RMS)} : 16A$   $I_{DRM}/I_{RRM}=10 \mu A$  max  $T_J=25^\circ C$

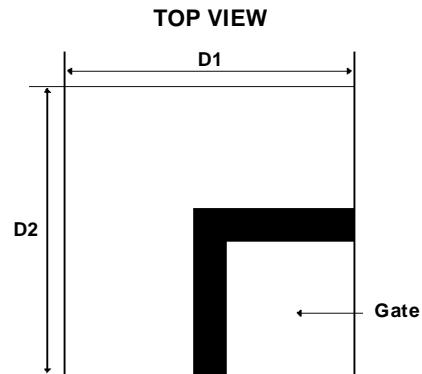
JTM-16-020	200	160	25	1.8	32	100
JTM-16-040	400					
JTM-16-060	600					
JTM-16-080	800					
JTM-16-100	1000					
JTM-16-120	1200					

200-600	3.5x3.5	2*-4-5 See § Metal.
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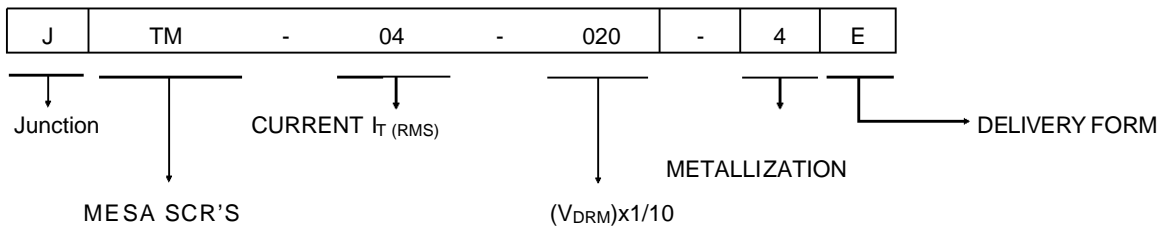
(1) :  $T_J = 25^\circ C$

\* = Preferred

TECHNOLOGY	MESA	
	E	V
DELIVERY FORM		
Base Qty		
2.6 x 2.6	605 pcs	
2.8 x 2.8	605 pcs	
3.5 x 3.5	500 pcs	



**Example :**



# STANDARD SCR's

TYPES	$V_{DRM}$ = $V_{RRM}$	$I_{TSM}$ max (1)	$I_{GT}$ max (1)	$V_{TM}@I_{TM}$ max (1)		$dv/dt$ min at $0.67 \times V_{DRM}$ $T_J=125^\circ C$
	$T_J=125^\circ C$ (V)	$T_P=10ms$ (A)	(mA)	(V)	(A)	(V/ $\mu s$ )

DICE		
Thick.	Dim.	Metal.
$\mu m$	(mm) D1xD2	

$I_{T(RMS)} : 20A$   $I_{DRM}/I_{RRM}=10 \mu A$  max  $T_J=25^\circ C$

JTM-20-020	200			1.8	40	100
JTM-20-040	400	200	40			
JTM-20-060	600					
JTM-20-080	800					
JTM-20-100	1000					
JTM-20-120	1200					

200-600	4.42x4.42	2*-4-5 See § Metal.
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$I_{T(RMS)} : 30A$   $I_{DRM}/I_{RRM}=20 \mu A$  max  $T_J=25^\circ C$

JTM-30-020	200			2	60	200
JTM-30-040	400	300	80			
JTM-30-060	600					
JTM-30-080	800					
JTM-30-100	1000					
JTM-30-120	1200					

200-600	5.0x5.0	2*-4-5 See § Metal.
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$I_{T(RMS)} : 45A$   $I_{DRM}/I_{RRM}=20 \mu A$  max  $T_J=25^\circ C$

JTM-45-020	200			2	90	200
JTM-45-040	400	400	80			
JTM-45-060	600					
JTM-45-080	800					
JTM-45-100	1000					
JTM-45-120	1200					

200-600	6.35x6.35	2-4-5* See § Metal.
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$I_{T(RMS)} : 70A$   $I_{DRM}/I_{RRM}=20 \mu A$  max  $T_J=25^\circ C$

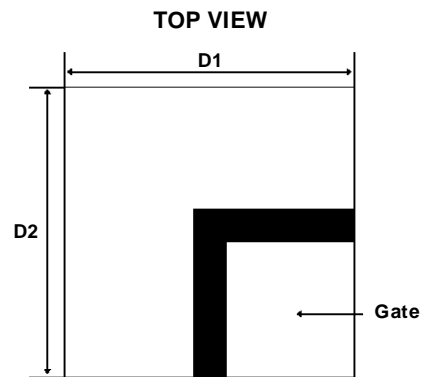
JTM-70-020	200			2	140	200
JTM-70-040	400	600	150			
JTM-70-060	600					
JTM-70-080	800					
JTM-70-100	1000					
JTM-70-120	1200					

200-600	8.5x8.5	2*-4-5 See § Metal.
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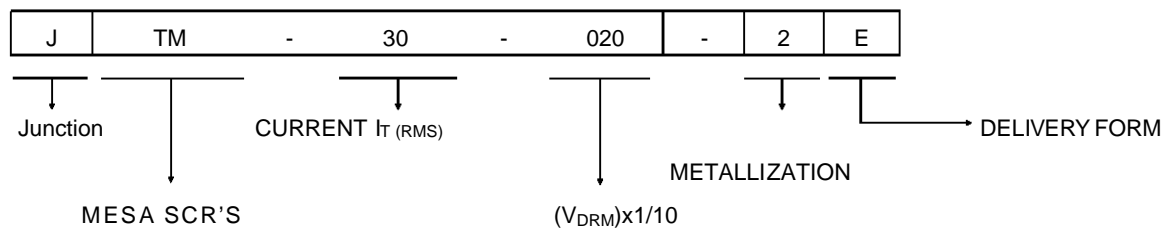
(1) :  $T_J = 25^\circ C$

\* = Preferred

TECHNOLOGY	MESA	
	E	V
DELIVERY FORM		
Base Qty		
4.42 x 4.42	245 pcs	
5.0 x 5.0	245 pcs	
6.35 x 6.35	180 pcs	
8.5 x 8.8	80 pcs	



Example :





## SENSITIVE SCR's

TYPES	$V_{DRM}$ = $V_{RRM}$ $T_J=125^\circ\text{C}$ (V)	$I_{TSM}$ max (1) $T_P=10\text{ms}$ (A)	$I_{GT}$ max (1) (mA)	$V_{TM}@I_{TM}$ max (1) (V) (A)	$dv/dt$ $R_{GK} = 1\text{K}\Omega$ Typ at $0.67 \times V_{DRM}$ $T_J=125^\circ\text{C}$ (V/ $\mu\text{s}$ )
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DICE		
Thick.	Dim.	Metal.
$\mu\text{m}$ typ.	(mm) D1xD2	

$I_{T(RMS)} : 2\text{A}$   $I_{DRM}/I_{RRM}=10 \mu\text{A}$  max  $R_{GK} = 1\text{K}\Omega$   $T_J = 25^\circ\text{C}$

JTTL02-020	200	20	0.2	1.45 2.5	15
JTTL02-040	400				
JTTL02-060	600				

210	1.48x1.33	9
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$I_{T(RMS)} : 4\text{A}$   $I_{DRM}/I_{RRM}=20 \mu\text{A}$  max  $R_{GK} = 1\text{K}\Omega$   $T_J = 25^\circ\text{C}$

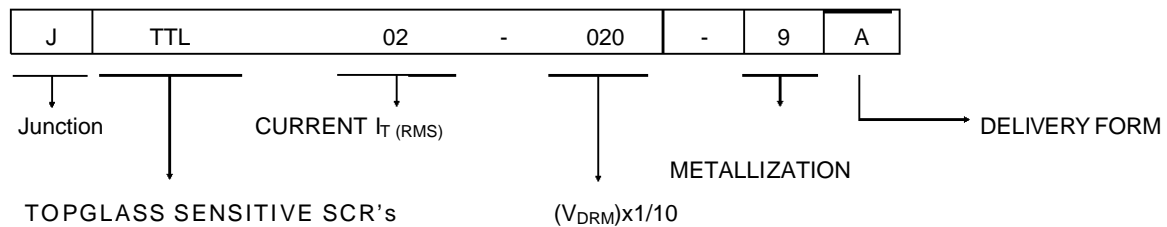
JTTL04-020	200	30	0.2	1.8 8	15
JTTL04-040	400				
JTTL04-060	600				

210	2x1.6	9
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(1)  $T_J=25^\circ\text{C}$

TECHNOLOGY	TOPGLASS		
	A	AB	F
DELIVERY FORM			
Max. Qty per wafer $\varnothing 4''$ 1.48x1.33	3400		
2x1.6	2055		
Base unit of delivery	1 wafer		

Example :



TYPES	V <sub>DRM</sub> = V <sub>RRM</sub> T <sub>J</sub> = 125°C (V)	I <sub>TSM</sub> max (1) T <sub>P</sub> =10ms (A)	H <sub>ET</sub> * max GaAs source at λ = 945 nm (mw/cm <sup>2</sup> )	V <sub>TM</sub> @I <sub>TM</sub>		dv/dt R <sub>GK</sub> = 1KΩ min at 0.67xV <sub>DRM</sub> T <sub>J</sub> =125°C (V/μs)	DICE		
				typ (1) (V)	(A)		Thick. μm typ.	Dim. (mm) D1xD2	Metal.

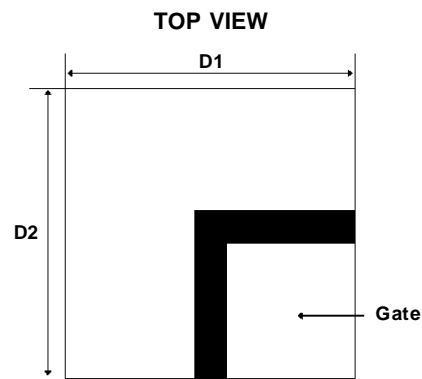
I<sub>T(RMS)</sub> : 3A I<sub>DRM</sub>/I<sub>RRM</sub>=10 μA max R<sub>GK</sub> = 1KΩ T<sub>J</sub> = 25°C

JLO-03-020	200								
JLO-03-040	400	30	70	1.4	3	20	170	1.3x1.3	6

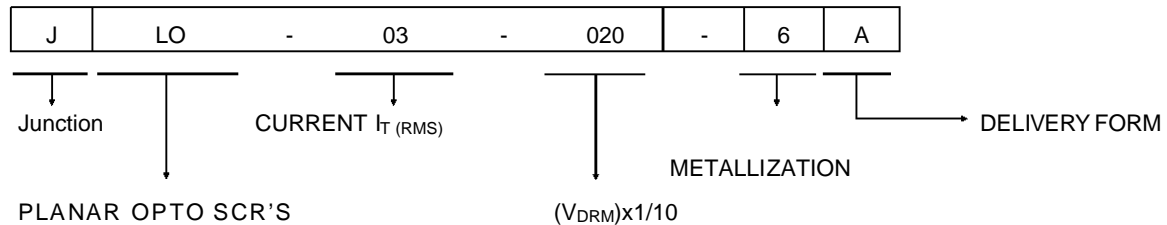
(1) T<sub>J</sub>=25°C

TECHNOLOGY	PLANAR	
DELIVERY FORM	A	AB
Max. Qty per wafer Ø 3" 1.3x1.3	2500	
Base unit of delivery	1 wafer	

\* Effective trigger irradiance



Example :



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