

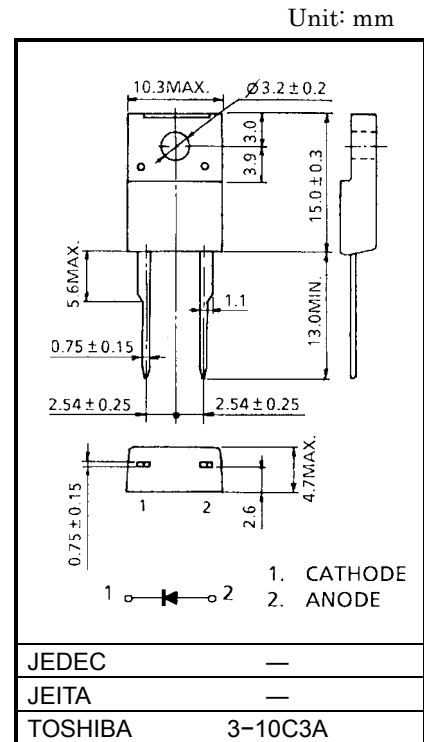
5DLZ47A

SWITCHING MODE POWER SUPPLY APPLICATION
CONVERTER & CHOPPER APPLICATION

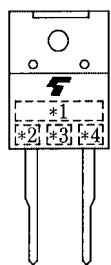
- Repetitive Peak Reverse Voltage : $V_{RRM} = 200V$
- Average Forward Current : $I_F (AV) = 5A$
- Ultra Fast Reverse-Recovery Time : $t_{rr} = 35ns (Max)$
- Low Forward Voltage : $V_{FM} = 0.98V$
- Low Switching Losses and Low Output Noise.

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	200	V
Average Forward Current	$I_F (AV)$	5	A
Peak One Cycle Surge Forward Current (Non-Repetitive)	I_{FSM}	50 (50Hz)	A
		60 (60Hz)	
Junction Temperature	T_j	-40~150	°C
Storage Temperature Range	T_{stg}	-40~150	°C
Screw Torque	—	0.6	N·m



MARKING

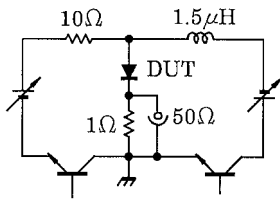


* 1	MARK	5DLZ47	TYPE	5DLZ47A
* 2	A			
* 3	Polarity			
* 4	Lot Number Month (Starting from Alphabet A) Year (Last Number of the Christian Era)			

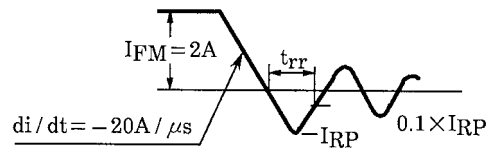
ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	MAX	UNIT
Peak Forward Voltage	V_{FM}	$I_{FM} = 5A$	—	0.98	V
Repetitive Peak Reverse Current	I_{RRM}	$V_{RRM} = 200V$	—	10	μA
Reverse Recovery Time (Note 1)	t_{rr}	$I_F = 2A, di/dt = -20A/\mu s$	—	35	ns
Forward Recovery Time (Note 2)	t_{fr}	$I_F = 1A$	—	100	ns
Thermal Resistance	$R_{th(j-c)}$	DC	—	4.0	$^{\circ}C/W$

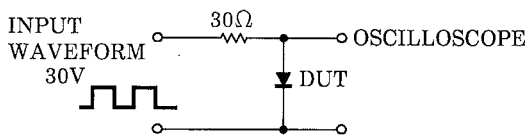
Note 1: t_{rr} TEST CIRCUIT



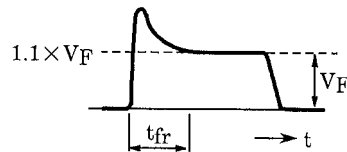
t_{rr} WAVEFORM

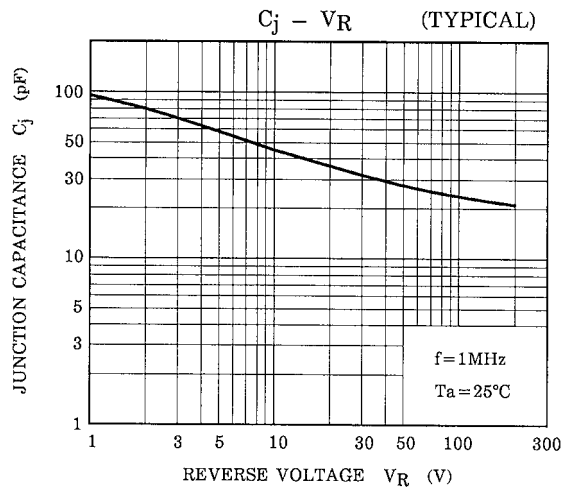
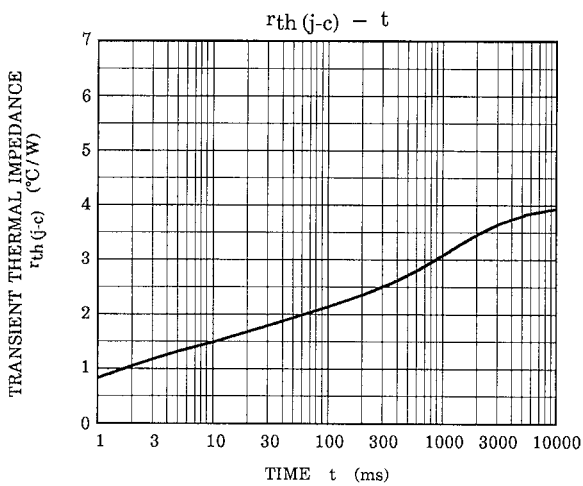
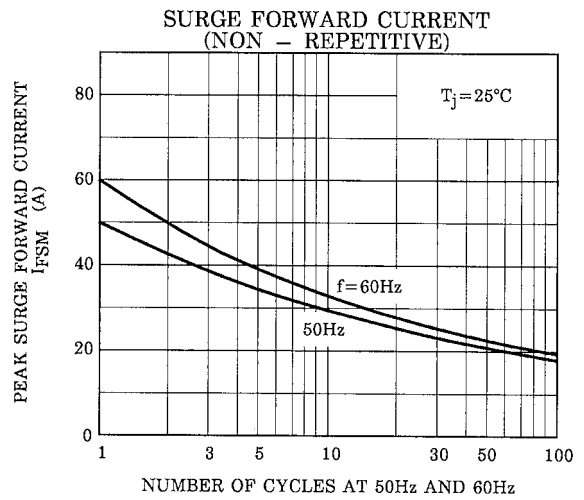
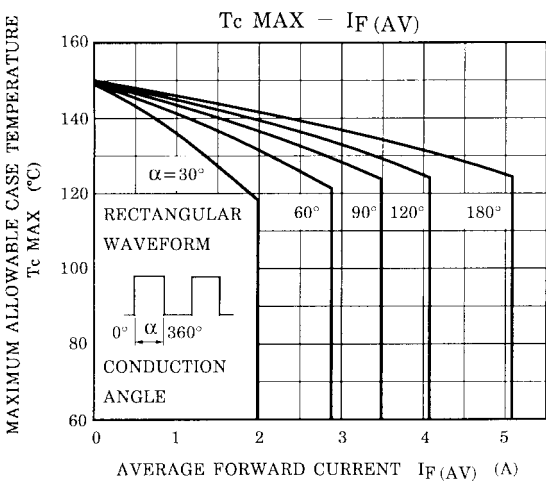
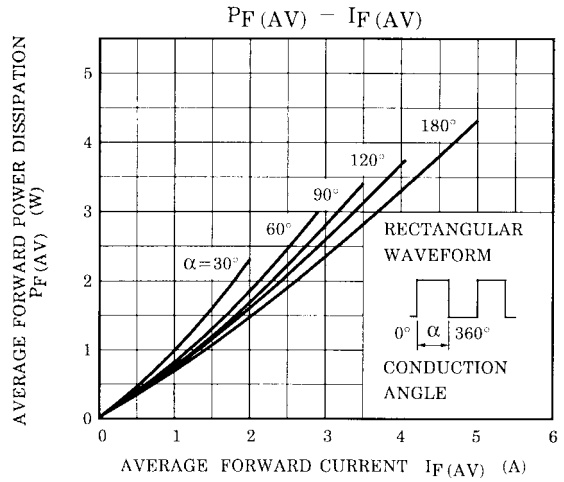
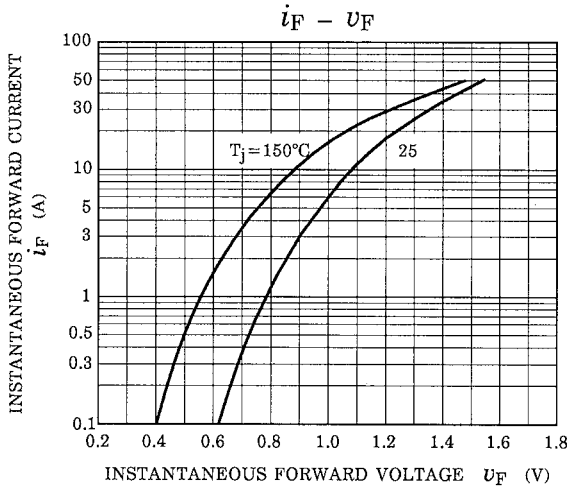


Note 2: t_{fr} TEST CIRCUIT



t_{fr} WAVEFORM





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