

TOSHIBA Rectifier Silicon Diffused Type

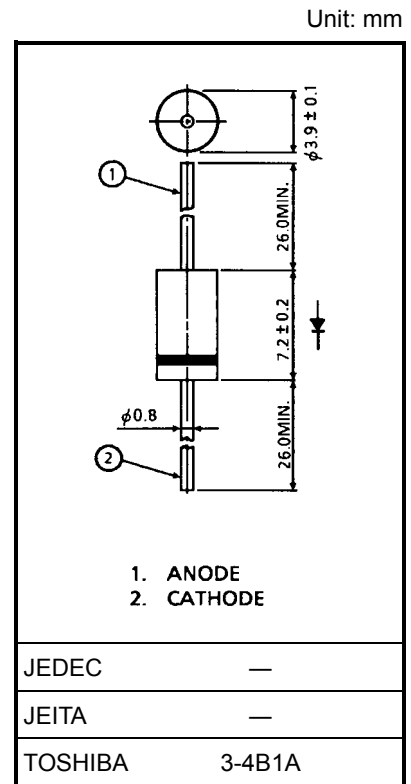
1R5BZ41,1R5GZ41

General Purpose Rectifier Applications

- Average Forward Current: $I_F (AV) = 1.5 \text{ A}$ ($T_a = 35^\circ\text{C}$)
- Repetitive Peak Reverse Voltage: $V_{RRM} = 100, 400 \text{ V}$
- Peak One Cycle Surge Forward Current (non repetitive): $I_{FSM} = 150 \text{ A}$

Maximum Ratings ($T_a = 25^\circ\text{C}$)

Characteristics		Symbol	Rating	Unit
Repetitive peak reverse voltage	1R5BZ41	V_{RRM}	100	V
	1R5GZ41		400	
Average forward current ($T_a = 35^\circ\text{C}$)		$I_F (AV)$	1.5	A
Peak one cycle surge forward current (non repetitive)		I_{FSM}	150 (50 Hz)	A
			165 (60 Hz)	
Junction temperature		T_j	-40 to 150	$^\circ\text{C}$
Storage temperature range		T_{stg}	-40 to 150	$^\circ\text{C}$

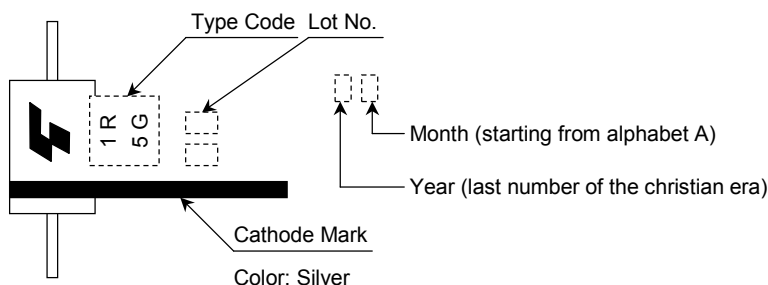


Electrical Characteristics ($T_a = 25^\circ\text{C}$)

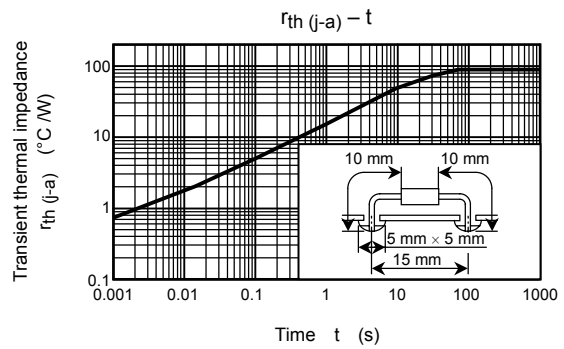
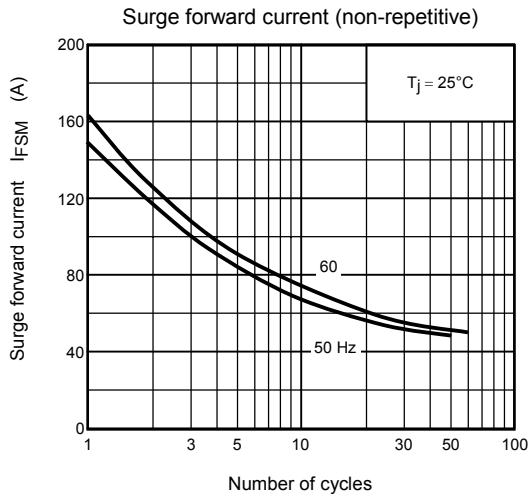
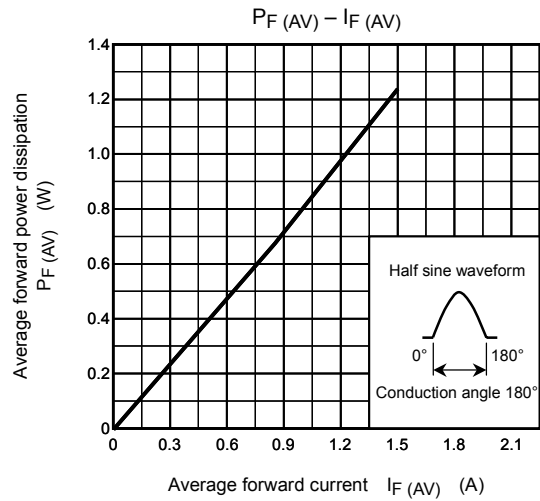
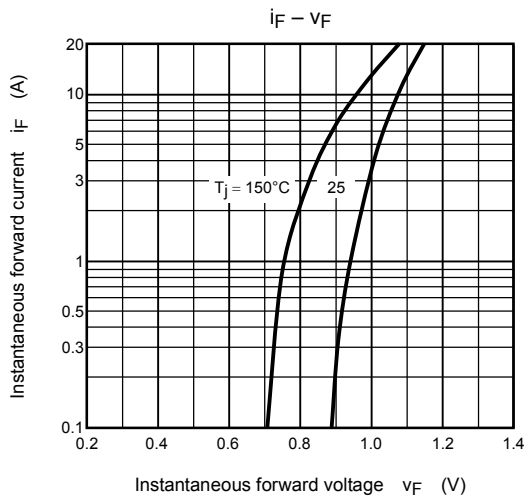
Weight: 0.47 g (typ.)

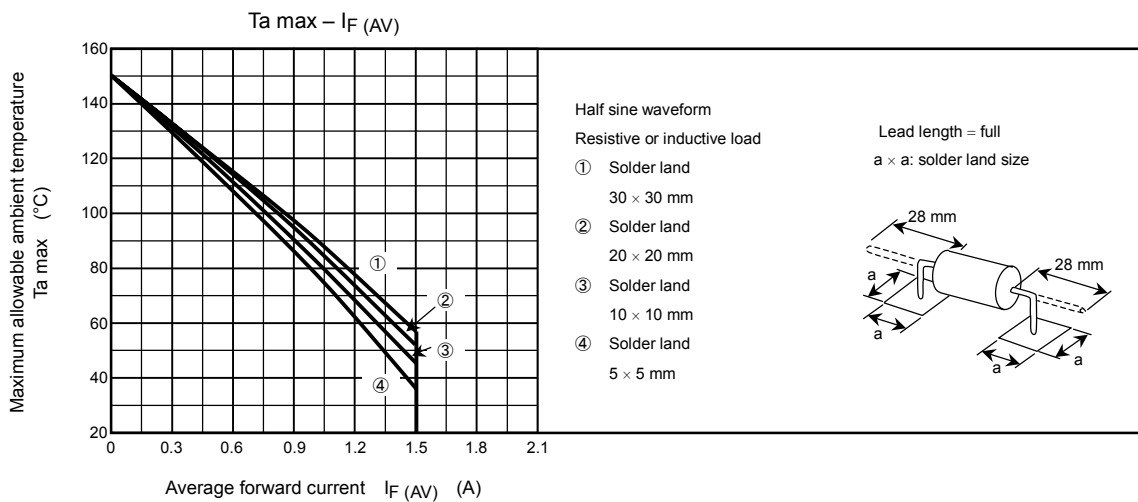
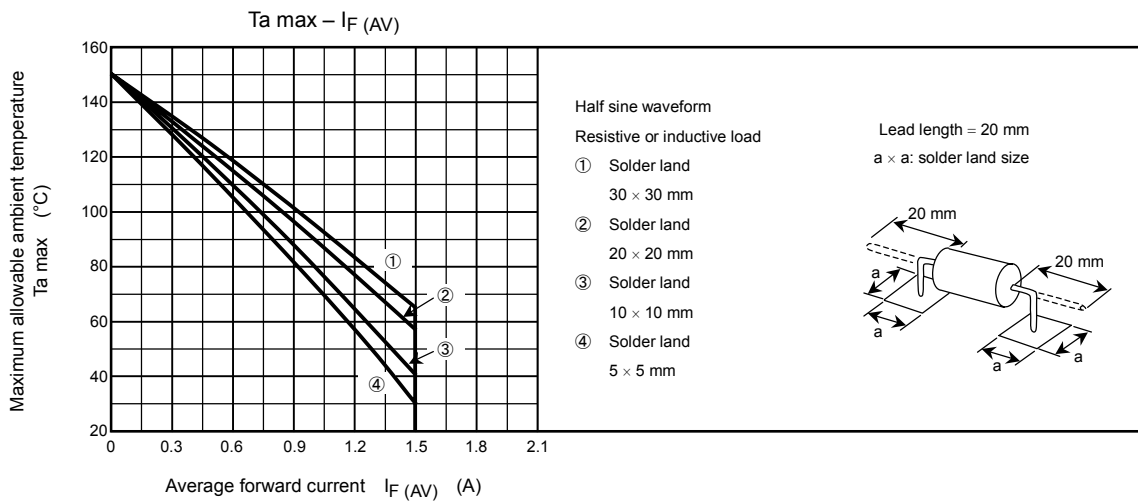
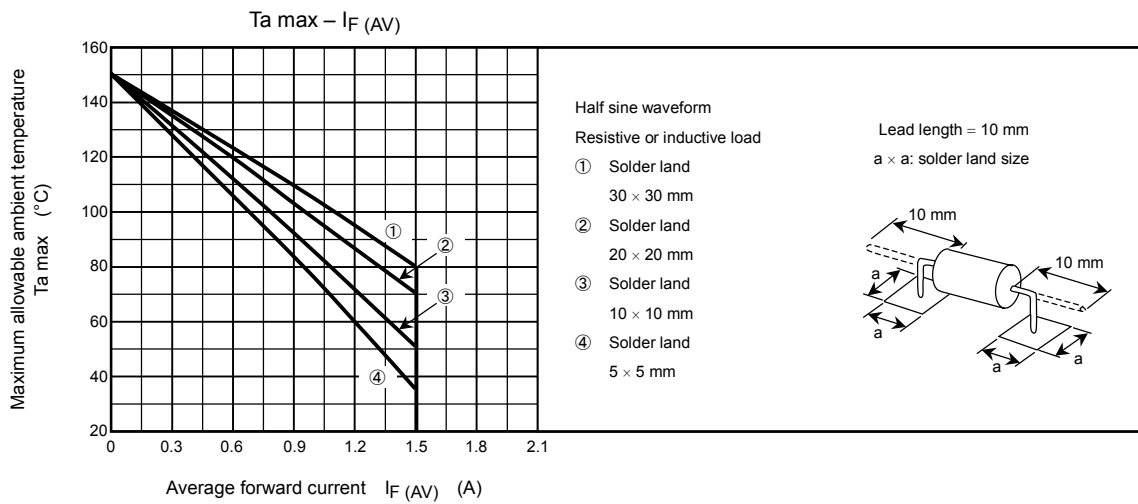
Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Peak forward voltage	V_{FM}	$I_{FM} = 0.5 \text{ A}$	—	—	0.95	V
Repetitive peak reverse current	I_{RRM}	$V_{RRM} = \text{Rated}$	—	—	10	μA
Thermal resistance (junction to ambient)	$R_{th(j-a)}$	DC	—	—	90	$^\circ\text{C/W}$

Marking



Code	Type
1R5B	1R5BZ41
1R5G	1R5GZ41





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000707EAA

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