

TOSHIBA Rectifier Silicon Diffused Type

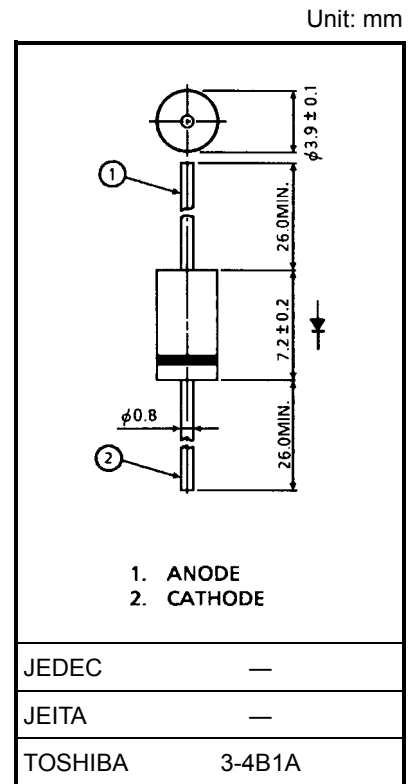
## 1R5BZ41,1R5GZ41

### 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	$^\circ\text{C}$

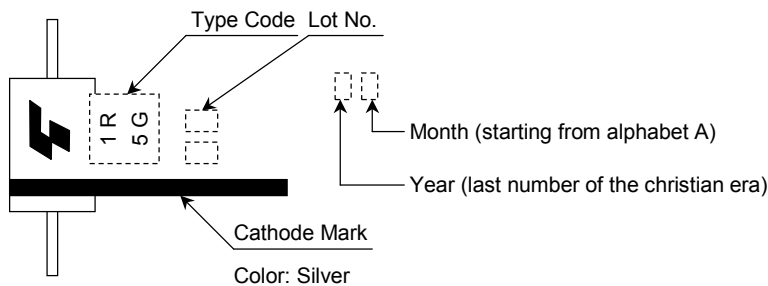


### Electrical Characteristics ( $T_a = 25^\circ\text{C}$ )

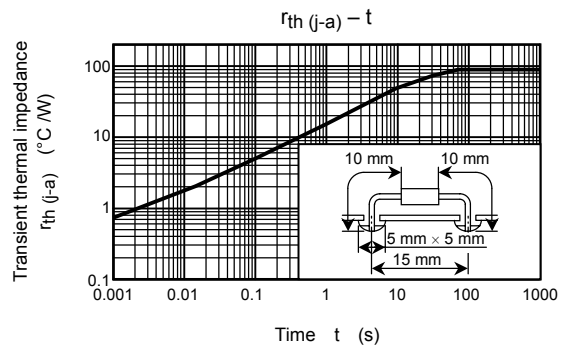
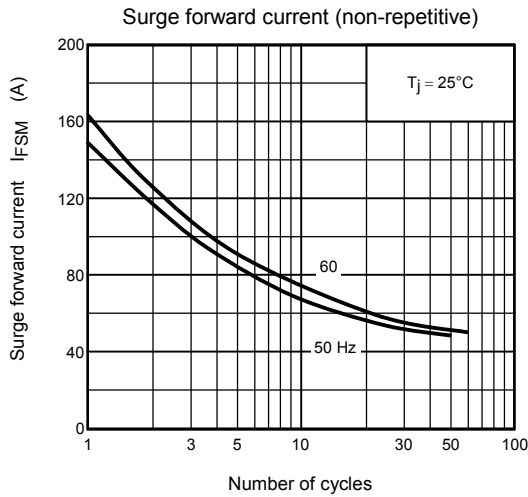
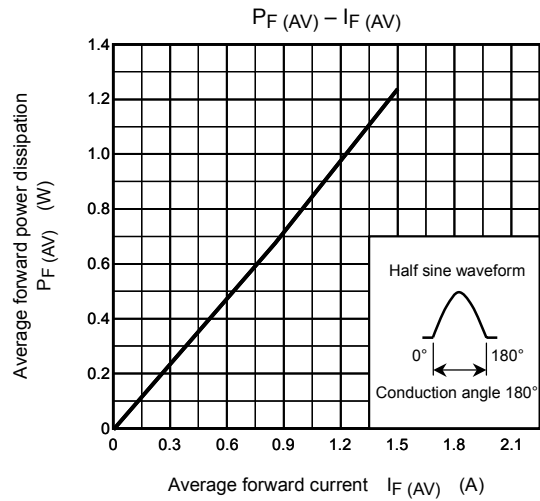
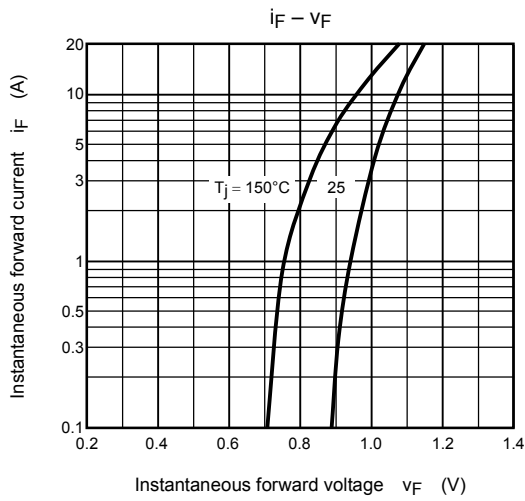
Weight: 0.47 g (typ.)

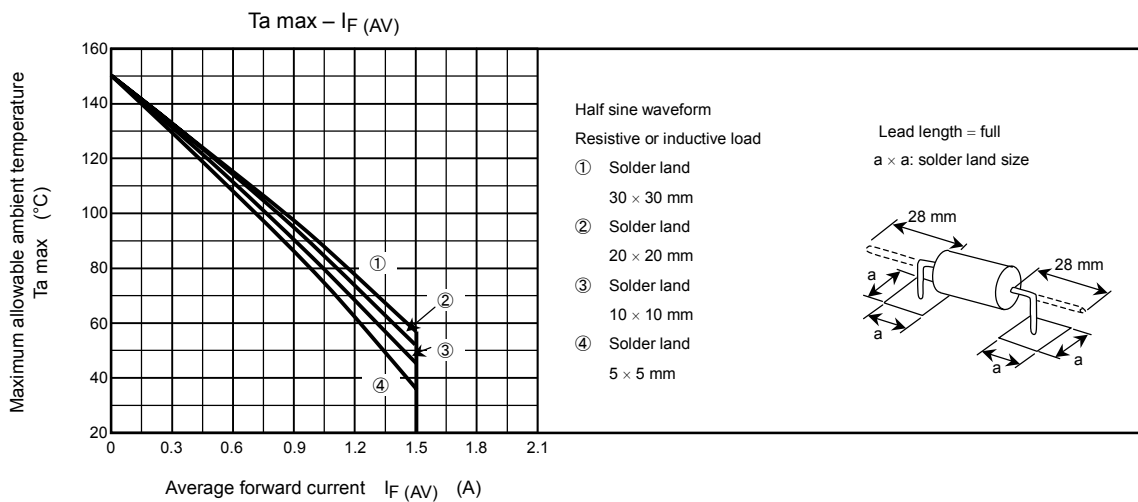
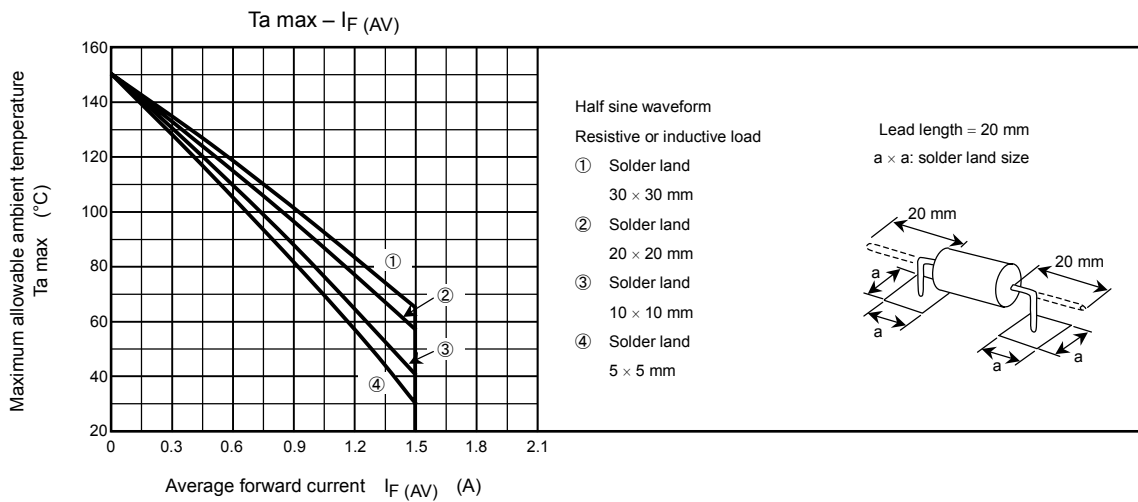
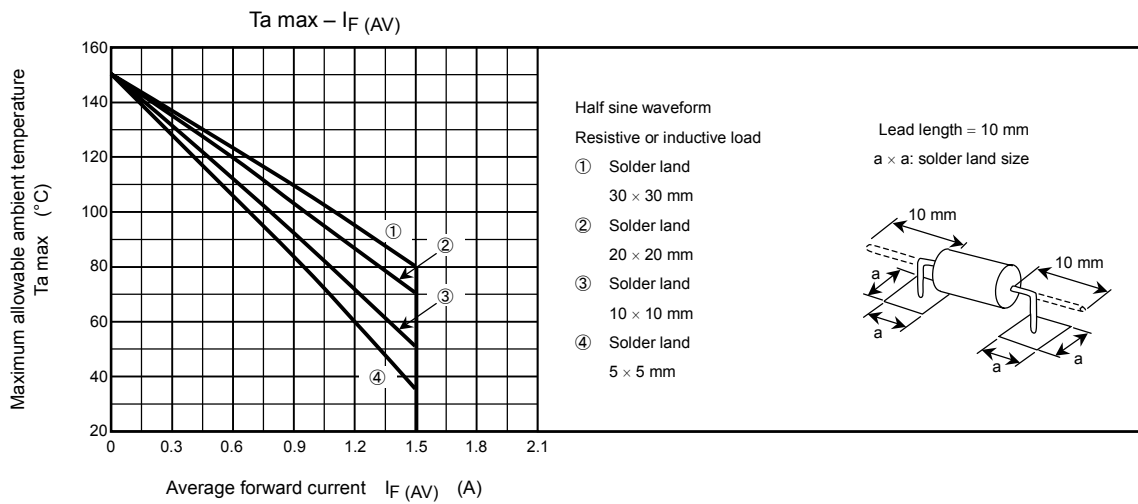
Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Peak forward voltage	$V_{FM}$	$I_{FM} = 0.5 \text{ A}$	—	—	0.95	V
Repetitive peak reverse current	$I_{RRM}$	$V_{RRM} = \text{Rated}$	—	—	10	$\mu\text{A}$
Thermal resistance (junction to ambient)	$R_{th (j-a)}$	DC	—	—	90	$^\circ\text{C/W}$

### Marking



Code	Type
1R5B	1R5BZ41
1R5G	1R5GZ41





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000707EAA

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