

TOSHIBA Rectifier Silicon Diffused Type

1R5JZ41,1R5NZ41

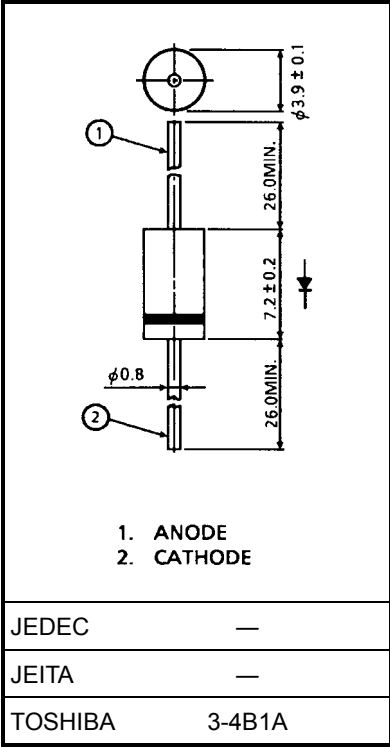
General Purpose Rectifier Applications

- Average Forward Current: $I_F (AV) = 1.5\text{ A}$ ($T_a = 25^\circ\text{C}$)
- Repetitive Peak Reverse Voltage: $V_{RRM} = 600, 1000\text{ V}$
- Peak One Cycle Surge Forward Current (non repetitive): $I_{FSM} = 100\text{ A}$
- Plastic Mold Type.

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

Characteristics		Symbol	Rating	Unit
Repetitive peak reverse voltage	1R5JZ41	V_{RRM}	600	V
	1R5NZ41		1000	
Average forward current ($T_a = 25^\circ\text{C}$)		$I_F (AV)$	1.5	A
Peak one cycle surge forward current (non repetitive)		I_{FSM}	100 (50 Hz)	A
			110 (60 Hz)	
Junction temperature		T_j	-40~150	$^\circ\text{C}$
Storage temperature range		T_{stg}	-40~150	$^\circ\text{C}$

Unit: mm

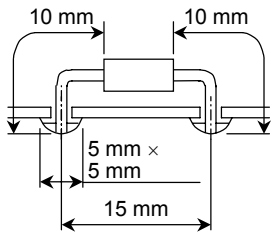


Weight: 0.47 g (typ.)

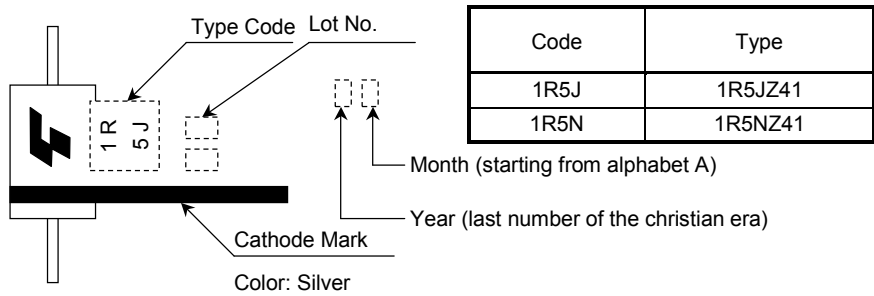
Electrical Characteristics (Ta = 25°C)

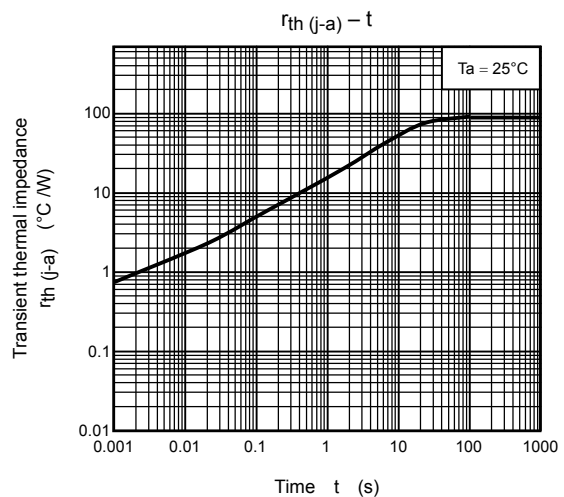
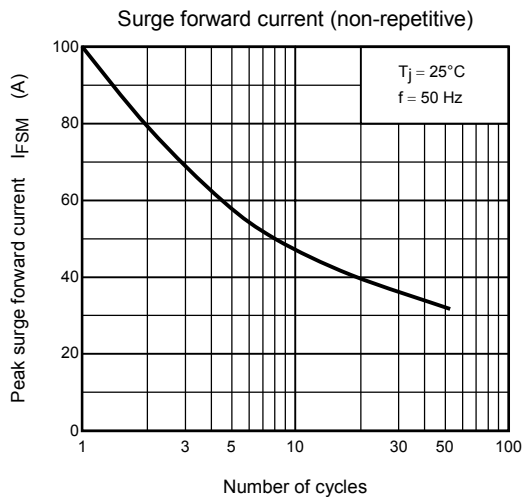
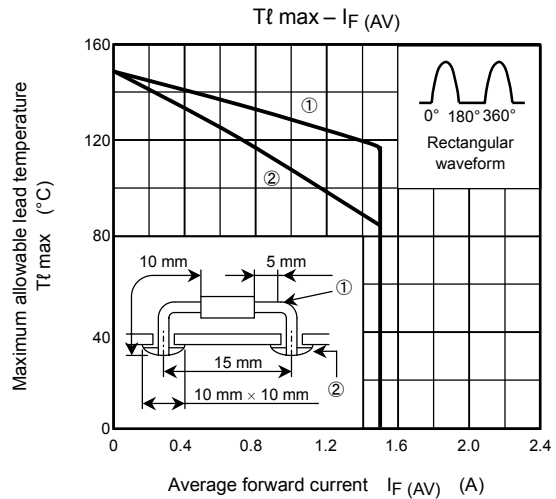
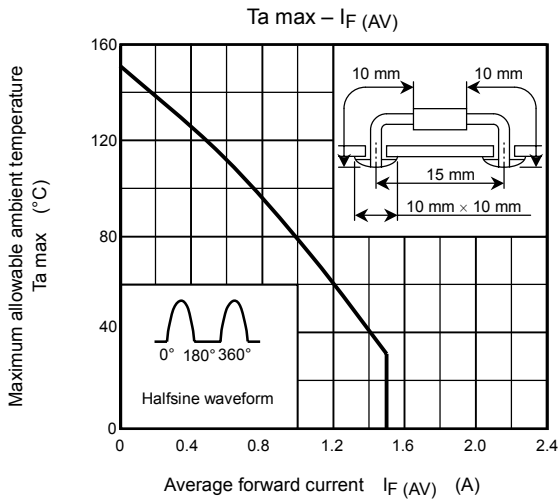
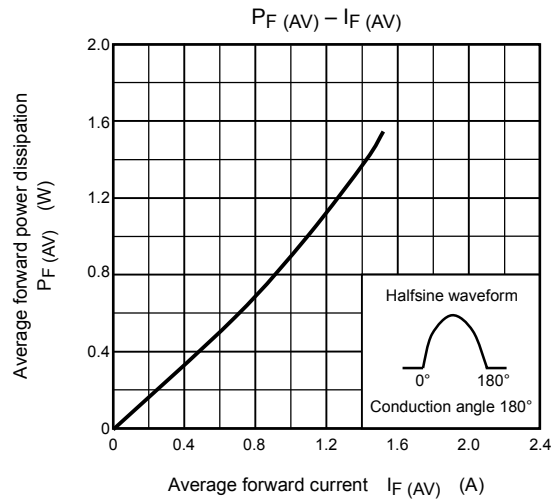
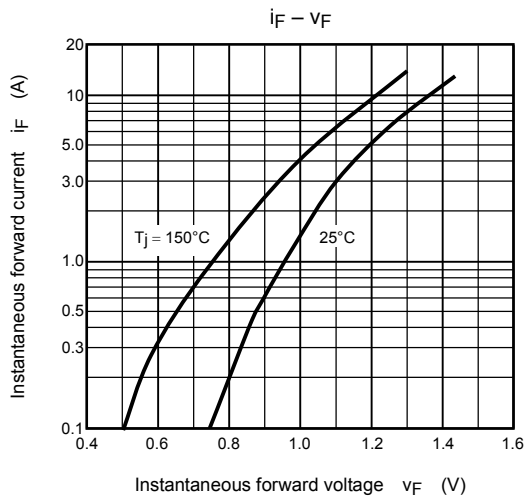
Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Peak forward voltage	V_{FM}	$I_{FM} = 1.5\text{ A}$	—	—	1.0	V
Repetitive peak reverse current	I_{RRM}	$V_{RRM} = \text{Rated}$	—	—	10	μA
Thermal resistance (junction to ambient)	$R_{th(j-a)}$	DC (Note1)	—	—	90	$^{\circ}\text{C/W}$

Note1: Thermal resistance



Marking





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