TOSHIBA Rectifier Silicon Diffused Type

# 1R5BZ41,1R5GZ41

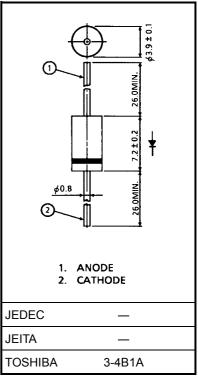
# **General Purpose Rectifier Applications**

Unit: mm

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

## **Maximum Ratings (Ta = 25°C)**

Characteristics		Symbol	Rating	Unit	
Repetitive peak	1R5BZ41	V	100	V	
reverse voltage	1R5GZ41	$V_{RRM}$	400		
Average forward current (Ta = 35°C)		I <sub>F (AV)</sub>	1.5	Α	
Peak one cycle surge forward current (non repetitive)		l=	150 (50 Hz)	Α	
		IFSM	165 (60 Hz)	A	
Junction temperature		Tj	-40 to 150	°C	
Storage temperature range		T <sub>stg</sub>	-40 to 150	°C	

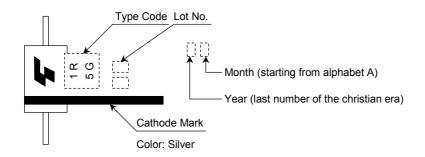


Weight: 0.47 g (typ.)

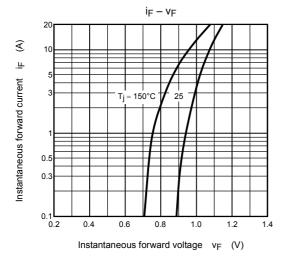
# **Electrical Characteristics (Ta = 25°C)**

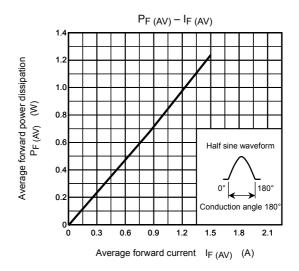
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Peak forward voltage	$V_{FM}$	I <sub>FM</sub> = 0.5 A	_	_	0.95	V
Repetitive peak reverse current	I <sub>RRM</sub>	V <sub>RRM</sub> = Rated	_	_	10	μA
Thermal resistance (junction to ambient)	R <sub>th (j-a)</sub>	DC	-	-	90	°C /W

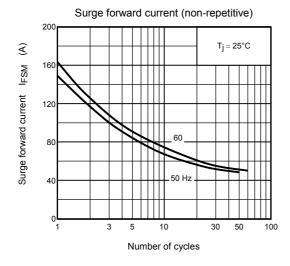
### Marking

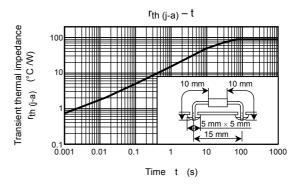


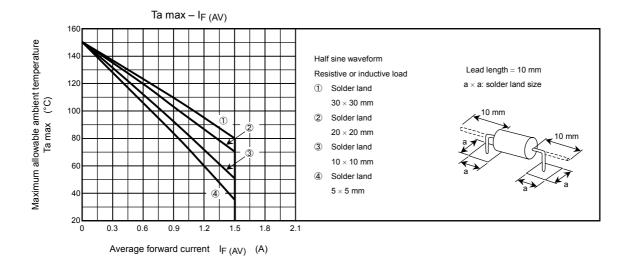
Code	Туре
1R5B	1R5BZ41
1R5G	1R5GZ41

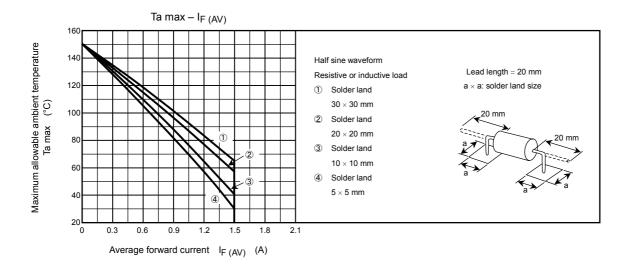


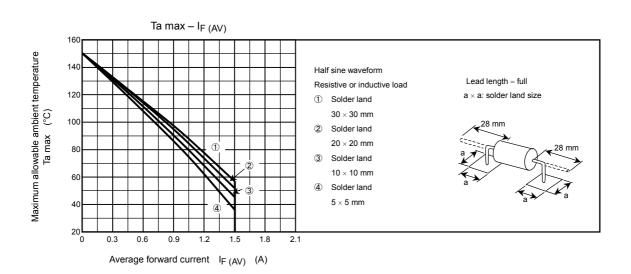












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