

TOSHIBA RECTIFIER SILICON DIFFUSED JUNCTION TYPE

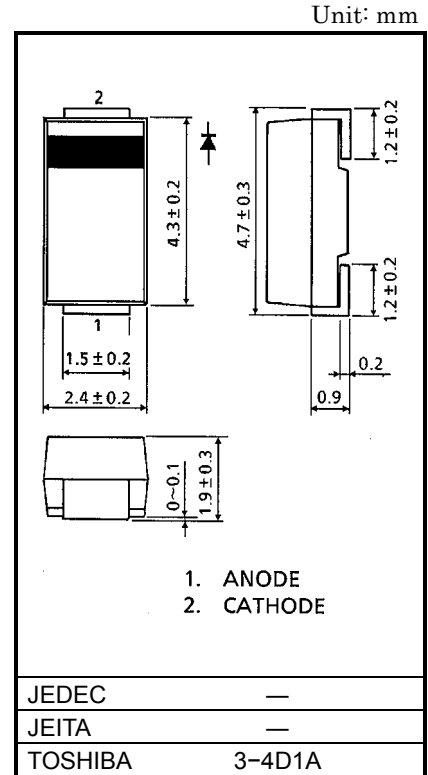
U1BC44,U1GC44,U1JC44

FOR HYBRID USE

- Average Forward Current : $I_F (AV) = 1.0A$
- Repetitive Peak Reverse Voltage : $V_{RRM} = 100, 400, 600V$
- Mini Plastic Mold Package

MAXIMUM RATINGS ($T_a = 25^\circ C$)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	U1BC44	100	V
	U1GC44	400	
	U1JC44	600	
Average Forward Current	On Ceramic Substrate	1.0 ($T_a = 75^\circ C$)	A
	On Glass-epoxy Substrate	0.9 ($T_a = 25^\circ C$)	
Peak One Cycle Surge Forward Current (Non-Repetitive)	I_{FSM}	30 (50Hz)	A
		33 (60Hz)	
Junction Temperature	T_j	-40~150	$^\circ C$
Storage Temperature Range	T_{stg}	-40~150	$^\circ C$

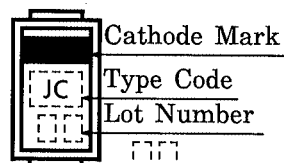
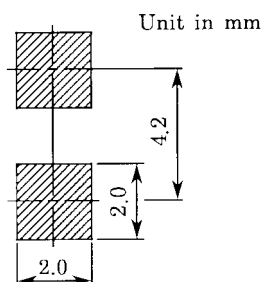


Weight: 0.06g

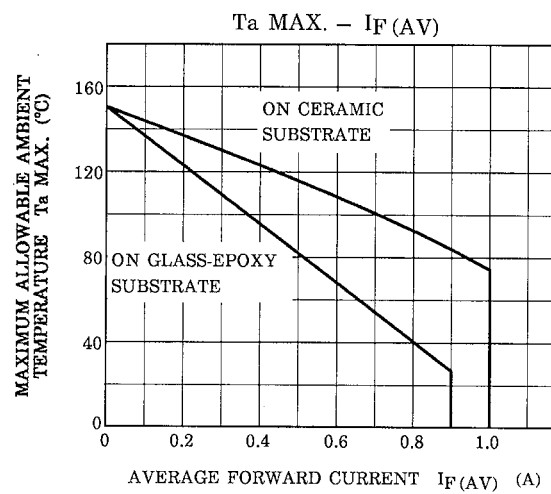
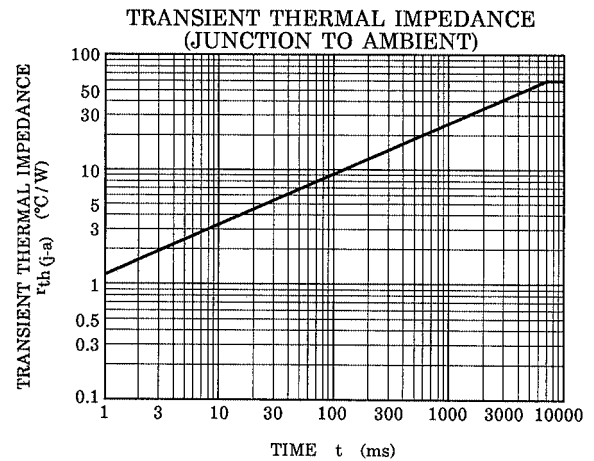
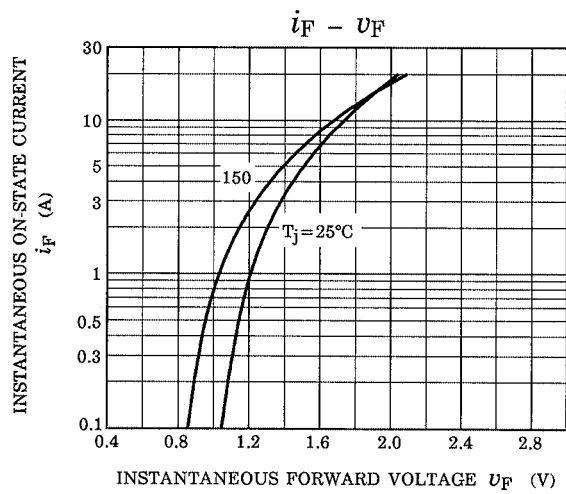
ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ C$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Peak Forward Voltage	V_{FM}	$I_{FM} = 1.0A$	—	—	1.2	V
Repetitive Peak Reverse Current	I_{RRM}	$V_{RRM} = \text{Rated}$	—	—	10	μA
Thermal Resistance	$R_{th(j-a)}$	DC On ceramic substrate	—	—	60	$^\circ C / W$
		On glass-epoxy substrate	—	—	120	

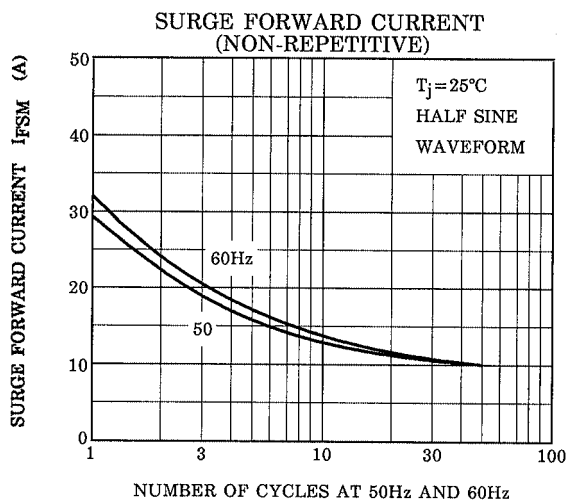
STANDARD SOLDERING PAD



CODE	TYPE
BC	U1BC44
GC	U1GC44
JC	U1JC44



	ON CERAMIC SUBSTRATE	ON GLASS-EPOXY SUBSTRATE
Soldering land : a □	2mm □	6mm □
Substrate size : b □	50mm □	50mm □
Substrate thickness : c □	0.64t	1.6t



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000707EAA

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