

TOSHIBA SCHOTTKY BARRIER RECTIFIER SCHOTTKY BARRIER TYPE

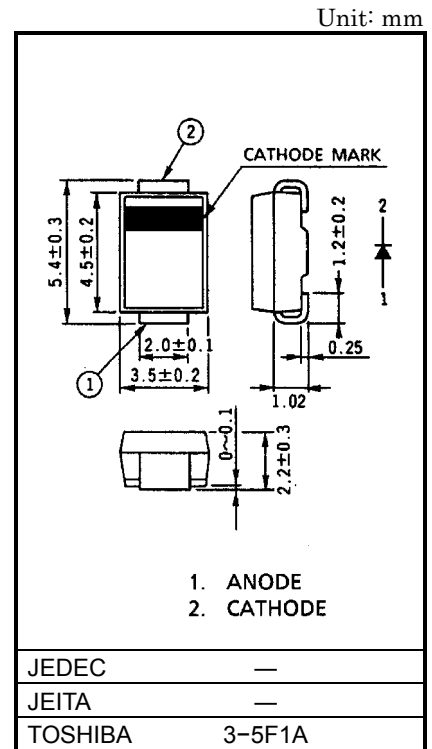
U2BC44,U2GC44,U2JC44

GENERAL PURPOSE RECTIFIER APPLICATIONS

- Repetitive Peak Reverse Voltage : $V_{RRM} = 100, 400, 600 \text{ V}$
- Average Forward Current : $I_F (AV) = 2.0 \text{ A}$
- Mini Plastic Mold Package

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

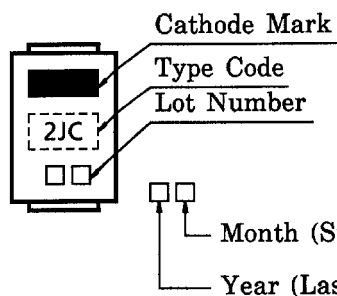
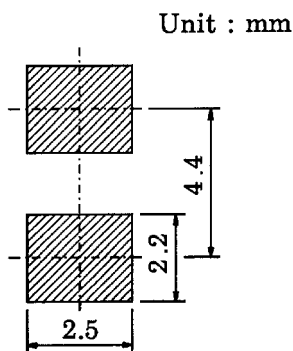
CHARACTERISTIC		SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	U2BC44	V_{RRM}	100	V
	U2GC44		400	
	U2JC44		600	
Average Forward Current	On Ceramic Substrate	$I_F (AV)$	2.0 ($T_a = 45^\circ\text{C}$)	A
	On Glass-epoxy Substrate		1.3 ($T_a = 25^\circ\text{C}$)	
Peak One Cycle Surge Forward Current (Non-Repetitive)		I_{FSM}	80 (50Hz) 88 (60Hz)	A
Junction Temperature Range		T_j	-40~150	$^\circ\text{C}$
Storage Temperature Range		T_{stg}	-40~150	$^\circ\text{C}$



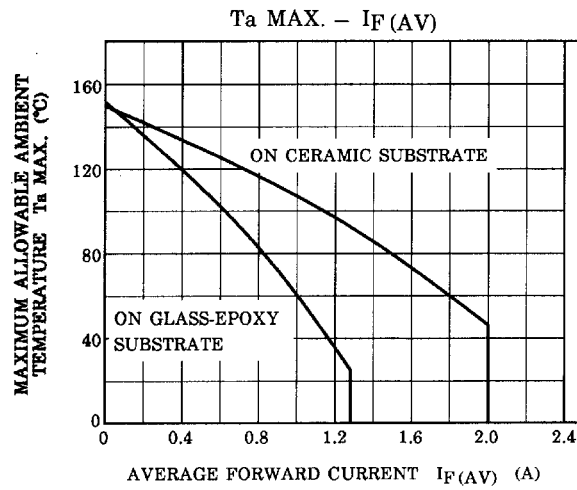
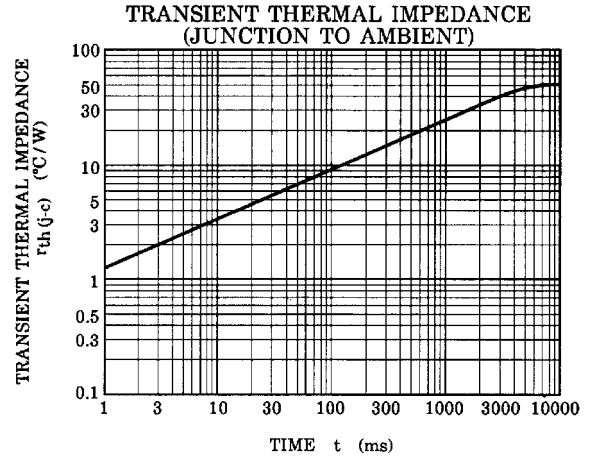
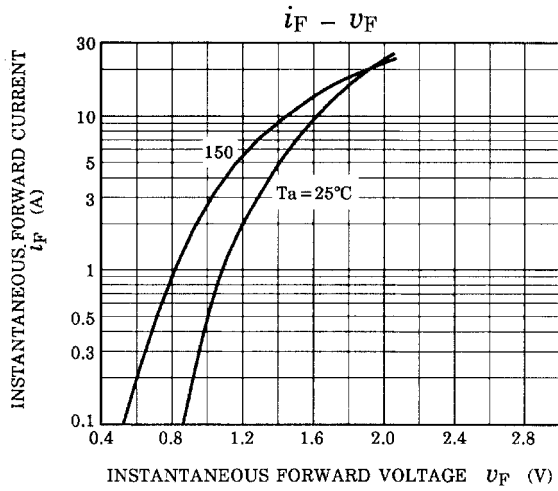
ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Peak Forward Voltage	V_{FM}	$I_{FM} = 2.0 \text{ A}$	—	—	1.2	V
Repetitive Peak Reverse Current	I_{RRM}	$V_{RRM} = \text{Rated}$	—	—	10	μA
Thermal Resistance	$R_{th(j-a)}$	DC			50	$^\circ\text{C/W}$
			On ceramic substrate	—	—	
		On glass-epoxy substrate	—	—	110	

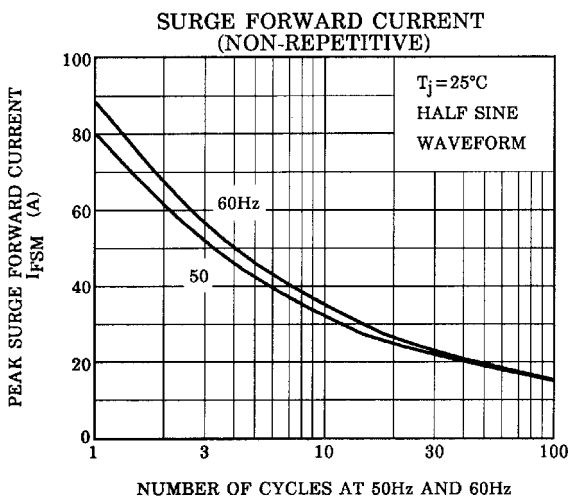
STANDARD SOLDERING PAD MARKING



CODE	TYPE
2BC	U2BC44
2GC	U2GC44
2JC	U2JC44



	ON CERAMIC SUBSTRATE	ON GLASS-EPOXY SUBSTRATE
Soldering land : a □	2.2×2.5mm	6mm □
Substrate size : b □	50mm □	50mm □
Substrate thickness : c □	0.64t	1.6t



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000707EAA

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