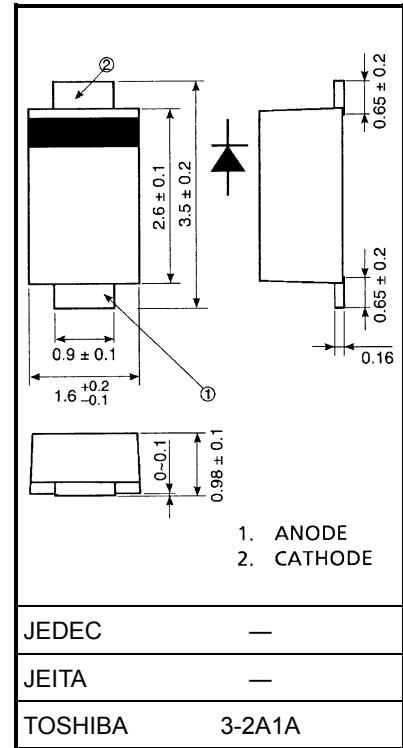


Toshiba Schottky Barrier Rectifier Schottky Barrier Type

CRS08

Switching Mode Power Supply Applications
 Portable Equipment Battery Applications

Unit: mm



- Forward voltage: $V_{FM} = 0.36$ V (max)
- Average forward current: $I_F (AV) = 1.5$ A
- Repetitive peak reverse voltage: $V_{RRM} = 30$ V
- Suitable for compact assembly due to small surface-mount package
 "S-FLAT™" (Toshiba package name)

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

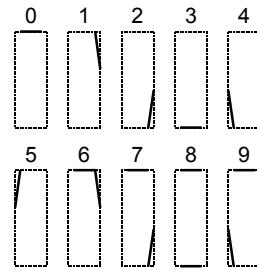
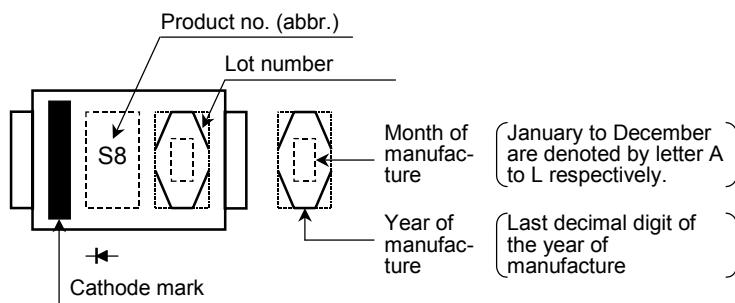
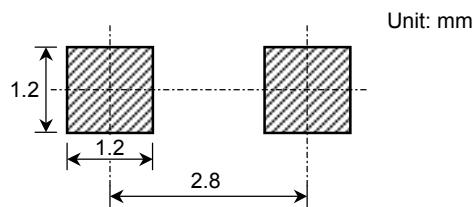
Characteristics	Symbol	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}	30	V
Average forward current	$I_F (AV)$	1.5 (Note)	A
Peak one cycle surge forward current (non-repetitive)	I_{FSM}	30 (50 Hz)	A
Junction temperature	T_j	-40~125	°C
Storage temperature	T_{stg}	-40~150	°C

Note: $T_\ell = 86^\circ\text{C}$: Rectangular waveform ($\alpha = 180^\circ\text{C}$), $VR = 15$ V

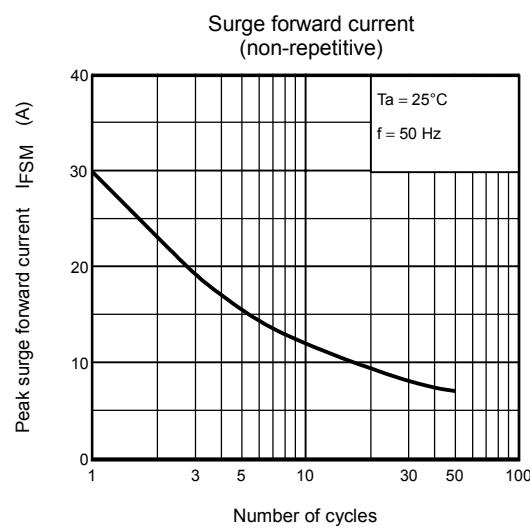
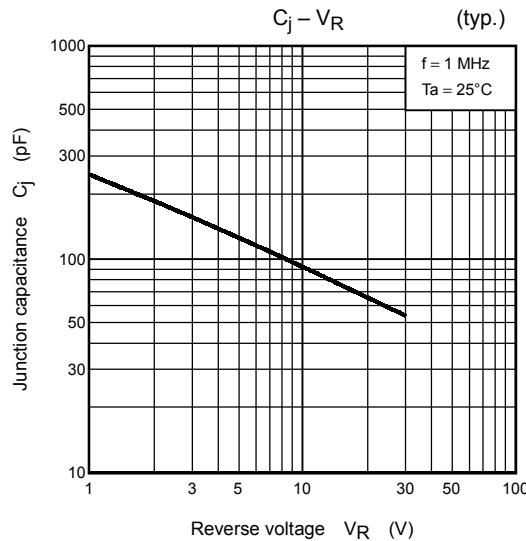
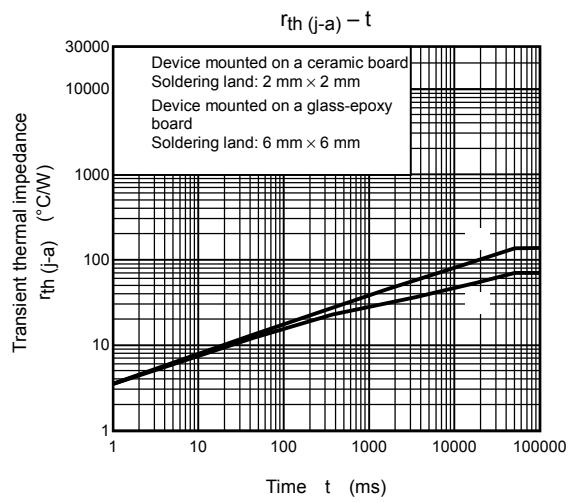
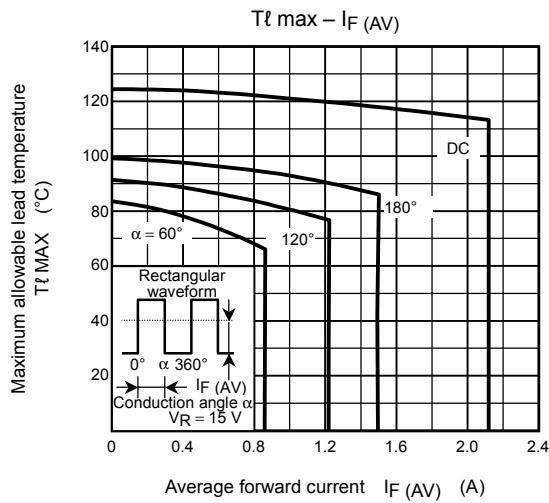
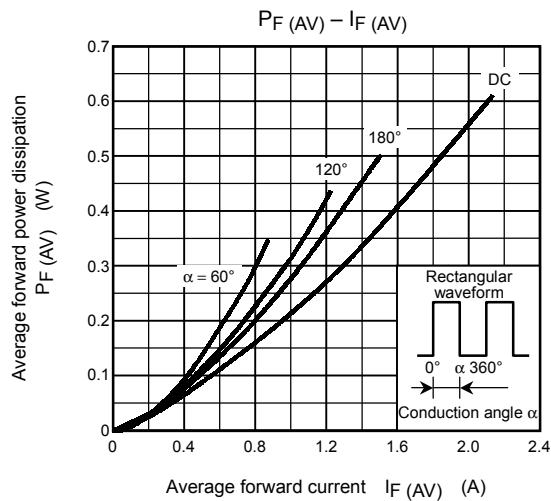
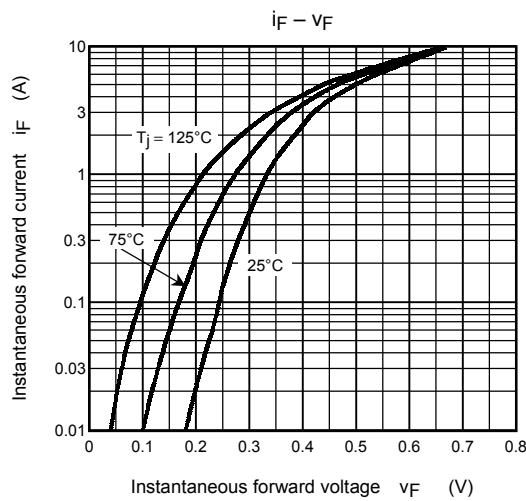
Weight: 0.013 g (typ.)

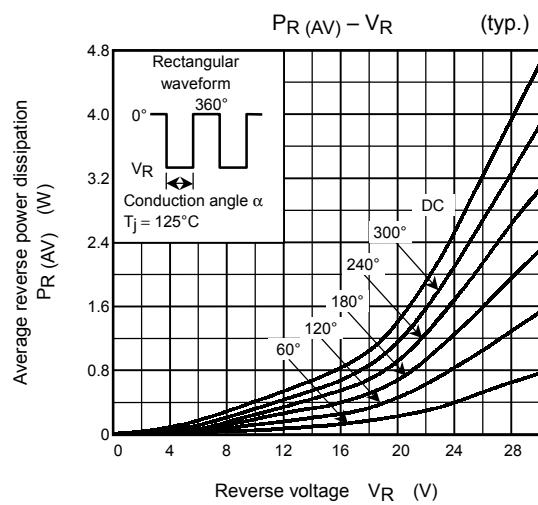
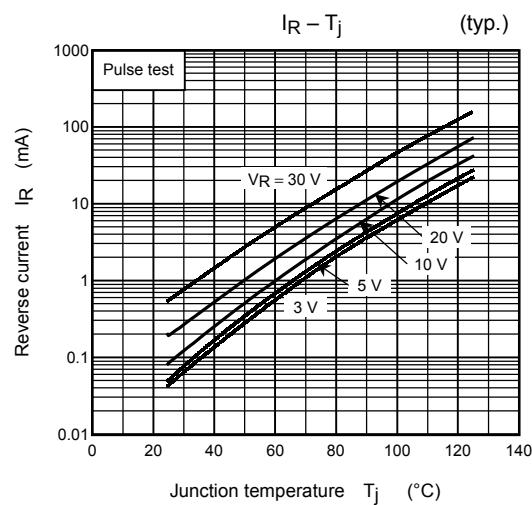
Electrical Characteristics ($T_a = 25^\circ\text{C}$)

Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Peak forward voltage	$V_{FM} (1)$	$I_{FM} = 0.1$ A	—	0.23	—	V
	$V_{FM} (2)$	$I_{FM} = 1.0$ A	—	0.32	—	
	$V_{FM} (3)$	$I_{FM} = 1.5$ A	—	0.345	0.36	
Repetitive peak reverse current	$I_{RRM} (1)$	$V_{RRM} = 5$ V	—	50	—	µA
	$I_{RRM} (2)$	$V_{RRM} = 30$ V	—	—	1.0	mA
Junction capacitance	C_j	$V_R = 10$ V, $f = 1.0$ MHz	—	90	—	pF
Thermal resistance (junction to ambient)	$R_{th} (j-a)$	Device mounted on a ceramic board (soldering land: 2 mm × 2 mm)	—	—	70	°C/W
		Device mounted on a glass-epoxy board (soldering land: 6 mm × 6 mm)	—	—	140	
Thermal resistance (junction to lead)	$R_{th} (j-t)$	—	—	—	20	°C/W

Marking**Following Indicates the Date of Manufacture****Standard Soldering Pad****Handling Precaution**

Schottky barrier diodes are having large-reverse-current-leakage characteristic compare to the other rectifier products. This current leakage and improper operating temperature or voltage may cause thermal runaway. Please take forward and reverse loss into consideration when you design.





RESTRICTIONS ON PRODUCT USE

000707EAA

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