

TENTATIVE

CUS01

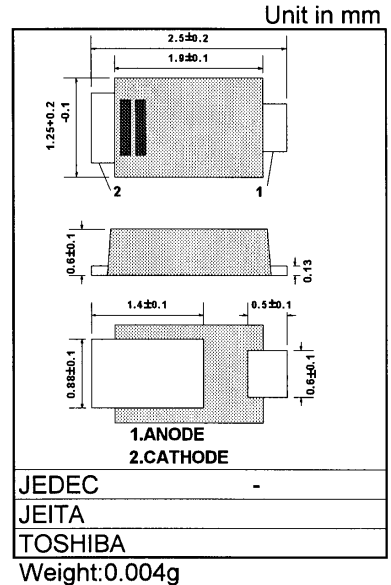
Portable equipment battery application

Forward Voltage : $V_{FM}=0.37V(\text{max})$
 Average Forward Current : $I_{F(AV)}=0.7A$
 Repetitive Peak Reverse Voltage : $V_{RRM}=30V$
 Small & Thin package " US-FLAT™ "(Toshiba package name)

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

Characteristics	Symbol	Rating	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	30	V
Average Forward Current	$I_{F(AV)}$	0.7(Note)	A
Peak one Cycle Surge Forward Current	I_{FSM}	20(50Hz)	A
Junction Temperature	T_j	-40 ~ 125	°C
Storage Temperature Range	T_{stg}	-40 ~ 150	°C

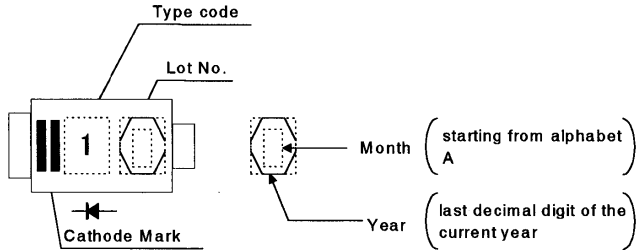
Note: $Tl=92^\circ C$:Rectangular waveform($\alpha=180^\circ$), $V_R=15V$



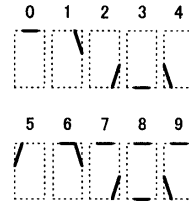
Electrical Characteristics ($T_a=25^\circ C$)

Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Peak Forward Voltage	$V_{FM(1)}$	$I_{FM}=0.1A$	-	0.25	-	V
	$V_{FM(2)}$	$I_{FM}=0.3A$	-	0.29	-	
	$V_{FM(3)}$	$I_{FM}=0.7A$	-	0.33	0.37	
Repetitive Peak Reverse Current	$I_{RRM(1)}$	$V_{RRM}=5V$	-	50	-	uA
	$I_{RRM(2)}$	$V_{RRM}=30V$	-	0.5	1.5	mA
Junction Capacitance	C_j	$VR=10V, f=1.0MHz$	-	40	-	pF
Thermal Resistance	$R_{th(j-a)}$	On ceramic substrate (Soldering Land 2mm×2mm)	-	-	75	°C/W
		On glass-epoxy substrate (Soldering Land 6mm×6mm)	-	-	150	
	$R_{th(j-l)}$	Junction to lead of cathode side	-	-	30	

Marking

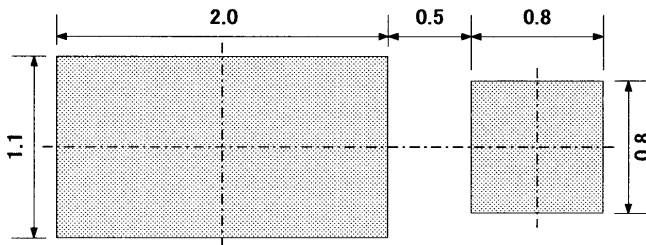


Following Indicates the Data of Manufacture



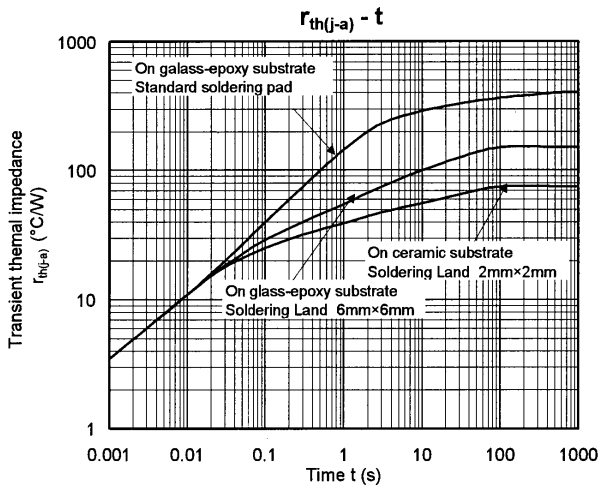
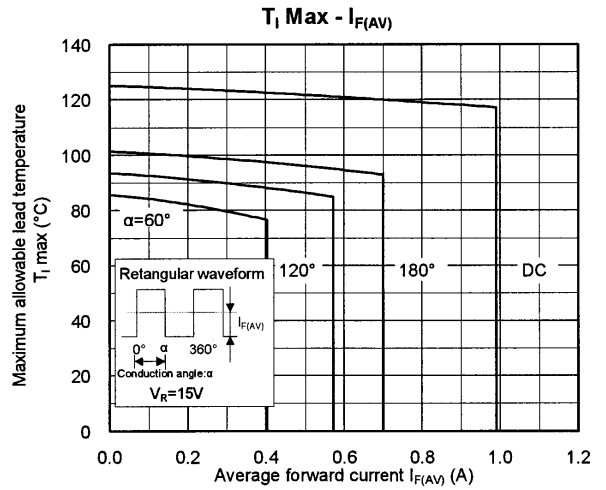
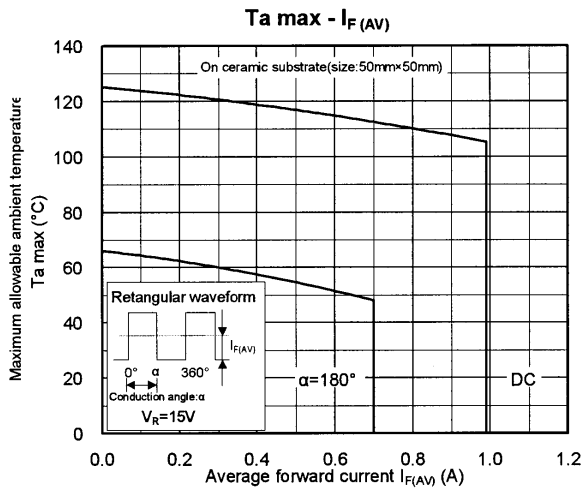
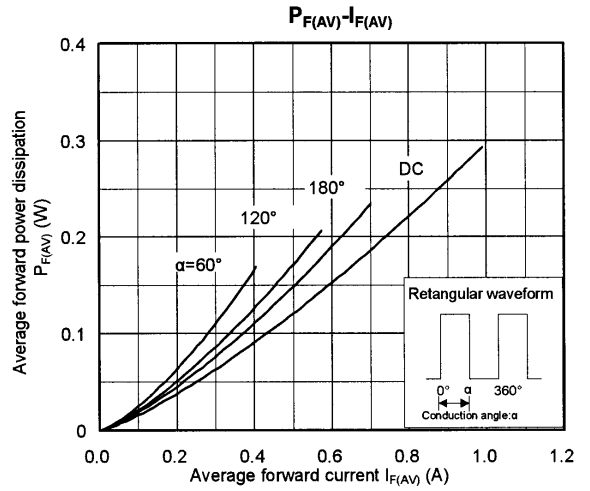
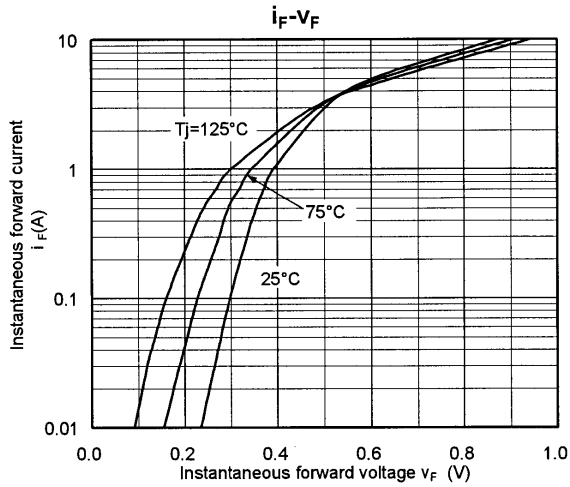
Standard Soldering Pad

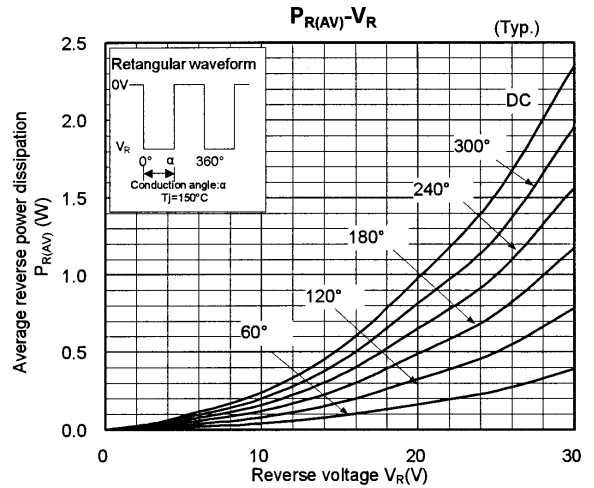
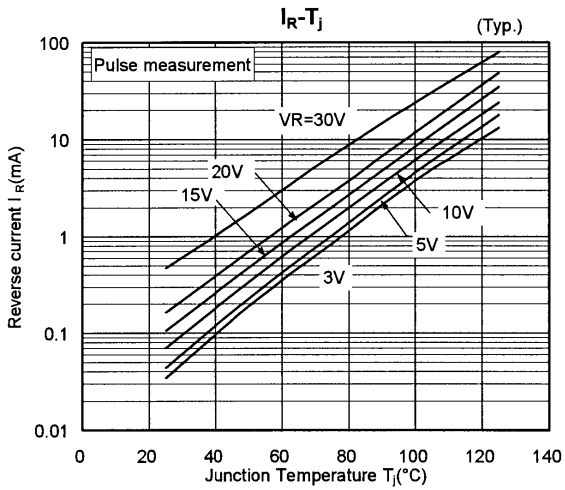
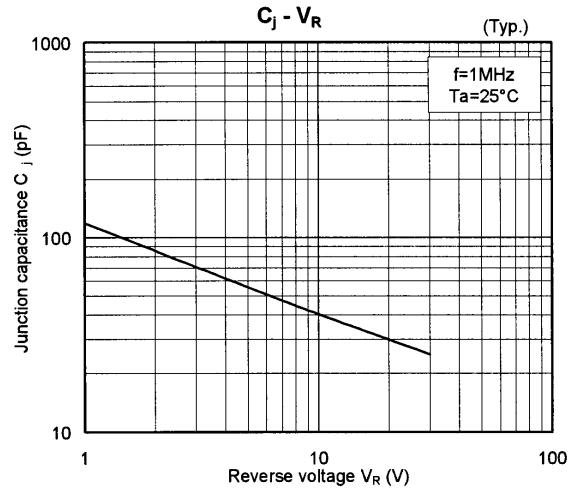
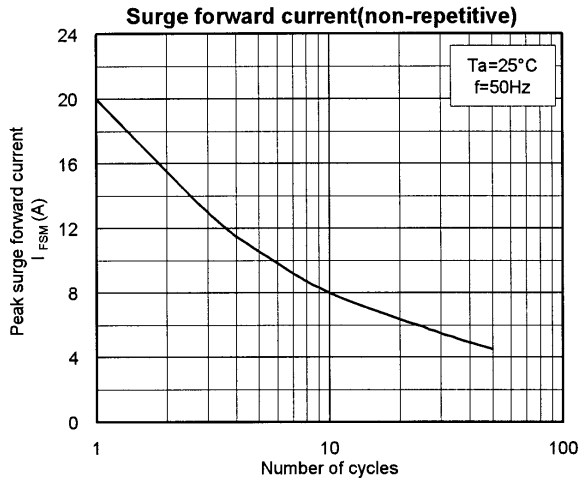
Unit in mm



Handling Precaution

Schottky barrier diodes are having large-reverse-current-leakage characteristic compare to the other rectifier products. This current leakage and not proper operating temperature or voltage may cause thermal runaway. Please take forward and reverse loss into consideration when you design.





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