TPRB168VAM100TR

Schottky barrier diode

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Features

- General rectification
- Low V_F; Low I_R
- High reliability

Applications

- surface mount schottky barrier rectifier

Ordering Information

- Shipping Qty:3000/7inch Tape& Reel

PIN	DESCRIPTION
1	Cathode
2	Anode



SOD323HE



Maximum Ratings (@ T_A = 25°C unless otherwise specified)

Parameter	Symbol		Unit
Peak Repetitive Reverse Voltage	V_{RRM}	100	V
RMS Reverse Voltage	V_{RMS}	70	V
DC Blocking Voltage	V_{DC}	100	V
Average Forward Output Current	I_{F_AV}	1.0	A
Peak Forward Surge Current, 8.3ms Single Half Sine wave	I_{FSM}	30	A

Thermal Characteristics

Parameter	Symbol		Unit
Typical Thermal Resistance *1	$R_{\Theta JA}$	110	°C/W
	$R_{\Theta JC}$	40	
Operating Junction Temperature Range	T_J	-55 ~ +125	°C
Storage Temperature Range	T_{STG}	-55 ~ +150	°C

Electrical Characteristics (@ T_A = 25°C unless otherwise specified)

Parameter	Symbol	Test Conditions		Typ.	Max.	Unit
Instantaneous Forward Voltage*1	V_F	I_F = 1.0A	@ T_A = 25°C	-	0.85	V
Maximum DC reverse current at rated DC blocking voltage TA = 25°C	I_R	Rated V_R	@ T_J = 25°C	-	0.5	mA
Tj = 125°C			@ T_J = 100°C	-	10	mA
Typical junction capacitance at 4.0V, 1MHz	CJ			160		pF

Ratings and Characteristic Curves (T_A=25℃ unless otherwise noted)

Fig. 1 – Forward Current Derating Curve

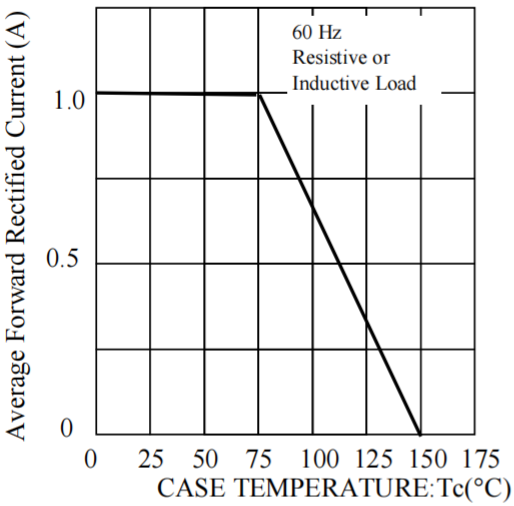


Fig. 2 – Maximum Non-repetitive Peak Forward Surge Current

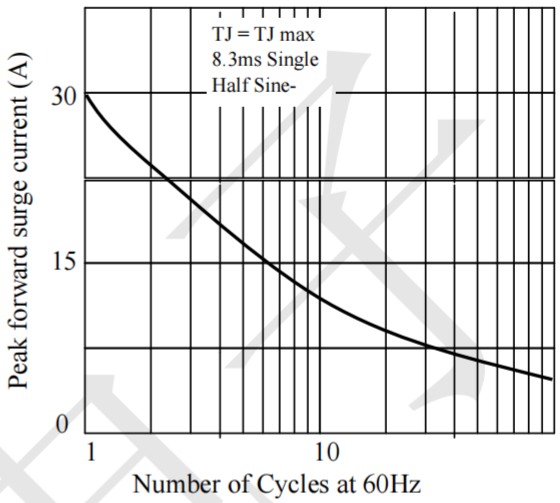


Fig 3. – Typical Instantaneous Forward Characteristics

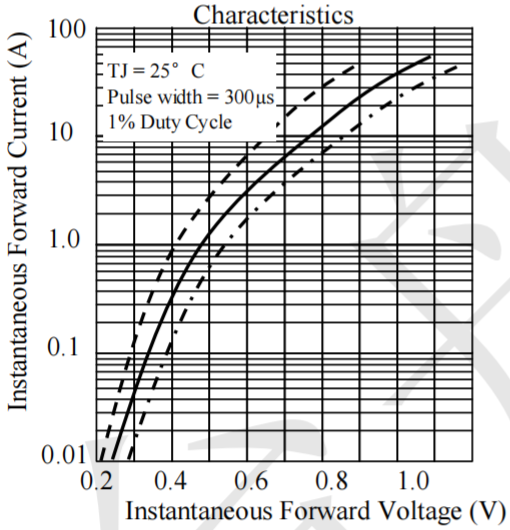


Fig 4. – Typical Reverse Characteristics

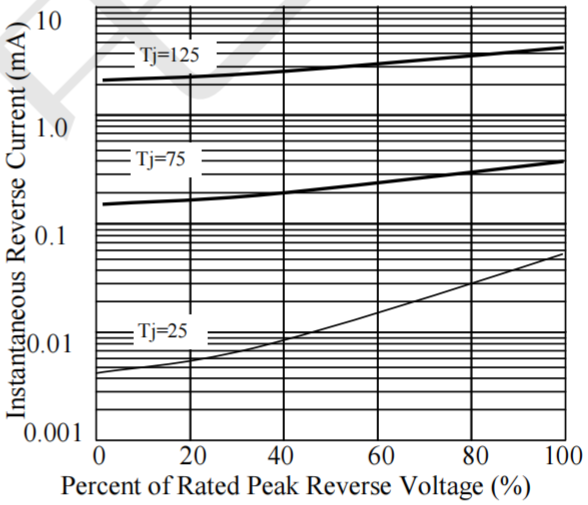


Fig 5. – typical transient thermal impedance

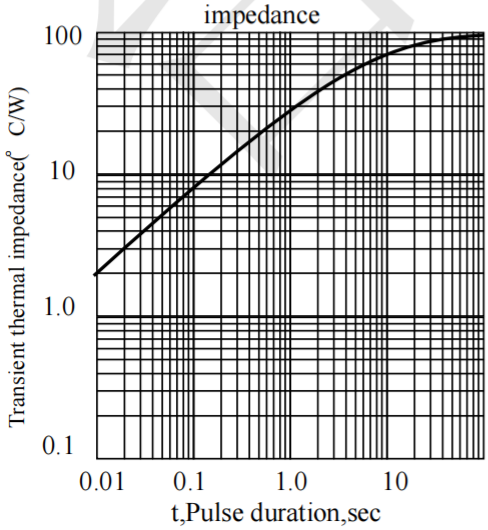
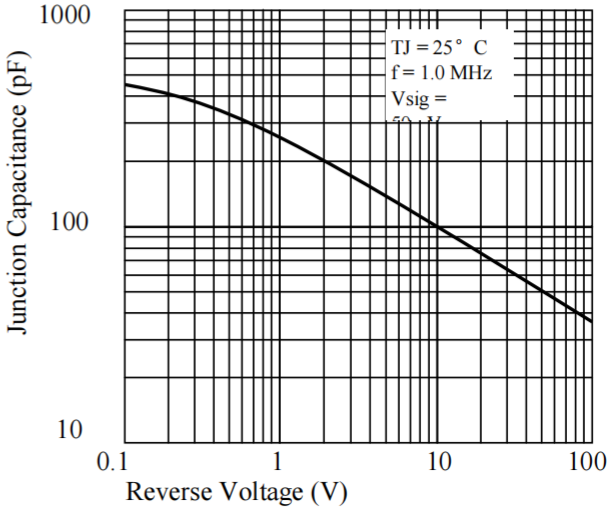
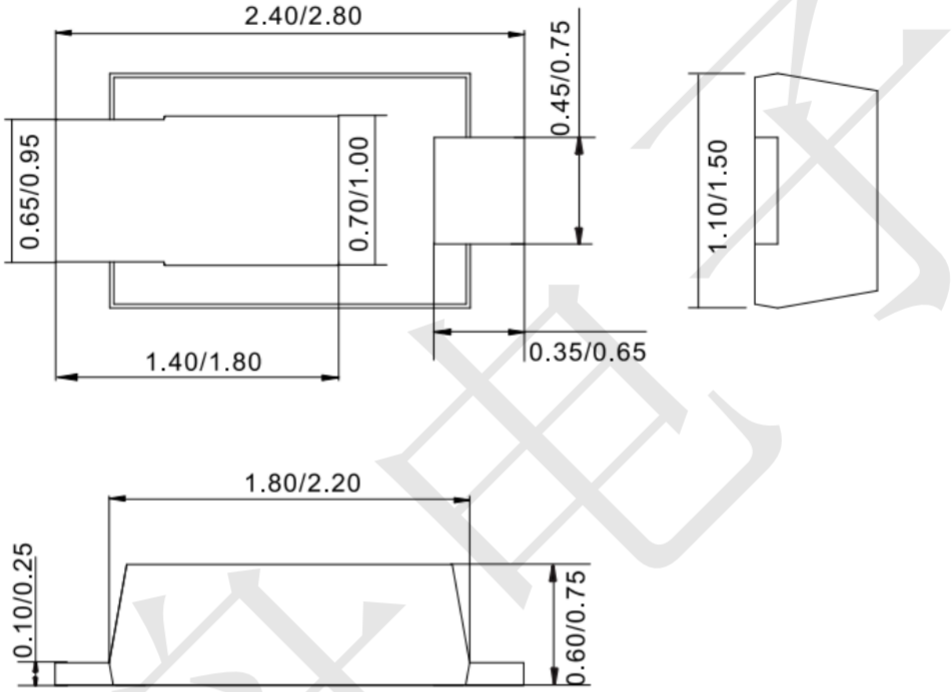


Fig 6. – Typical Junction Capacitance



Outline Drawing - SOD323HE (unit: mm)



Mounting Pad Layout-SOD323HE (unit: mm)

