

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 (@ $T_A = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol		Unit
Peak Repetitive Reverse Voltage	V_{RRM}	40	V
RMS Reverse Voltage	V_{RMS}	28	V
DC Blocking Voltage	V_{DC}	40	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	$^\circ\text{C/W}$
	$R_{\theta JC}$	40	
Operating Junction Temperature Range	T_J	-55 ~ +125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 ~ +150	$^\circ\text{C}$

Electrical Characteristics (@ $T_A = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Conditions		Typ.	Max.	Unit
Instantaneous Forward Voltage ^{*1}	V_F	$I_F = 1.0\text{A}$	@ $T_A = 25^\circ\text{C}$	-	0.55	V
Reverse Current ^{*2}	I_R	Rated V_R	@ $T_J = 25^\circ\text{C}$	-	0.5	mA
			@ $T_J = 100^\circ\text{C}$	-	10	mA

Ratings and Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

Fig. 1 - Forward Current Derating Curve

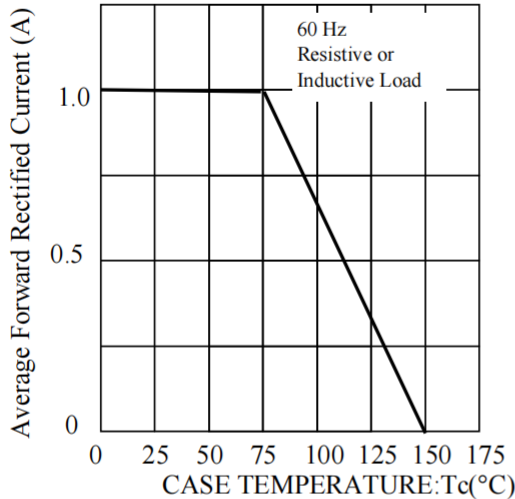


Fig. 2 - Maximum Non-repetitive Peak Forward Surge Current

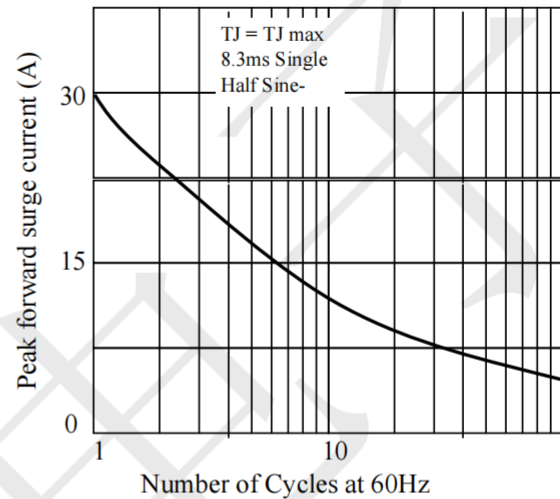


Fig. 3 - Typical Instantaneous Forward Characteristics

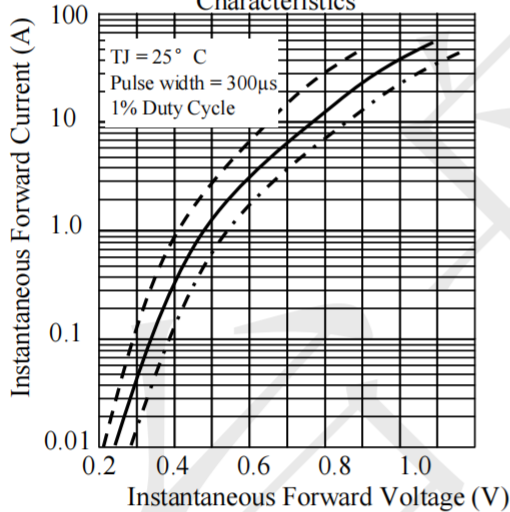


Fig. 4 - Typical Reverse Characteristics

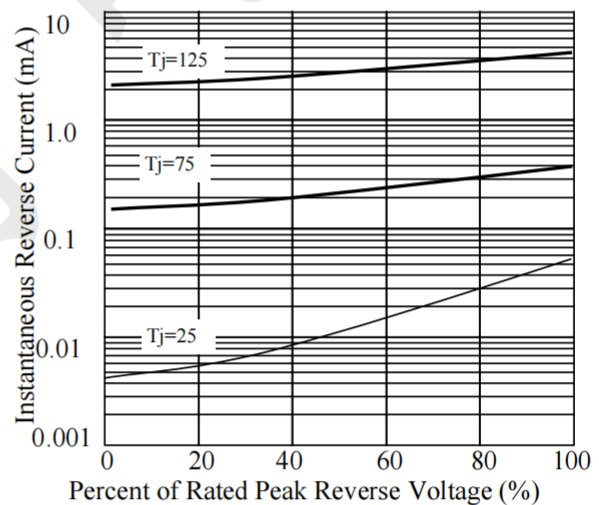


Fig. 5 - typical transient thermal impedance

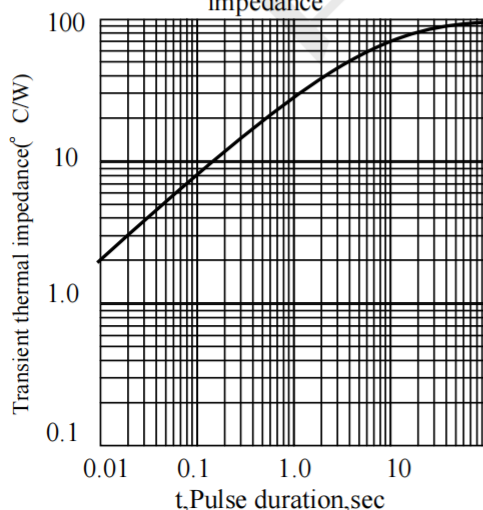
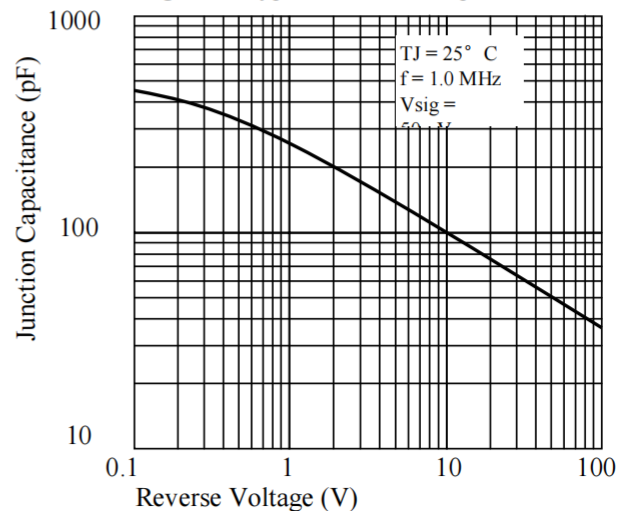
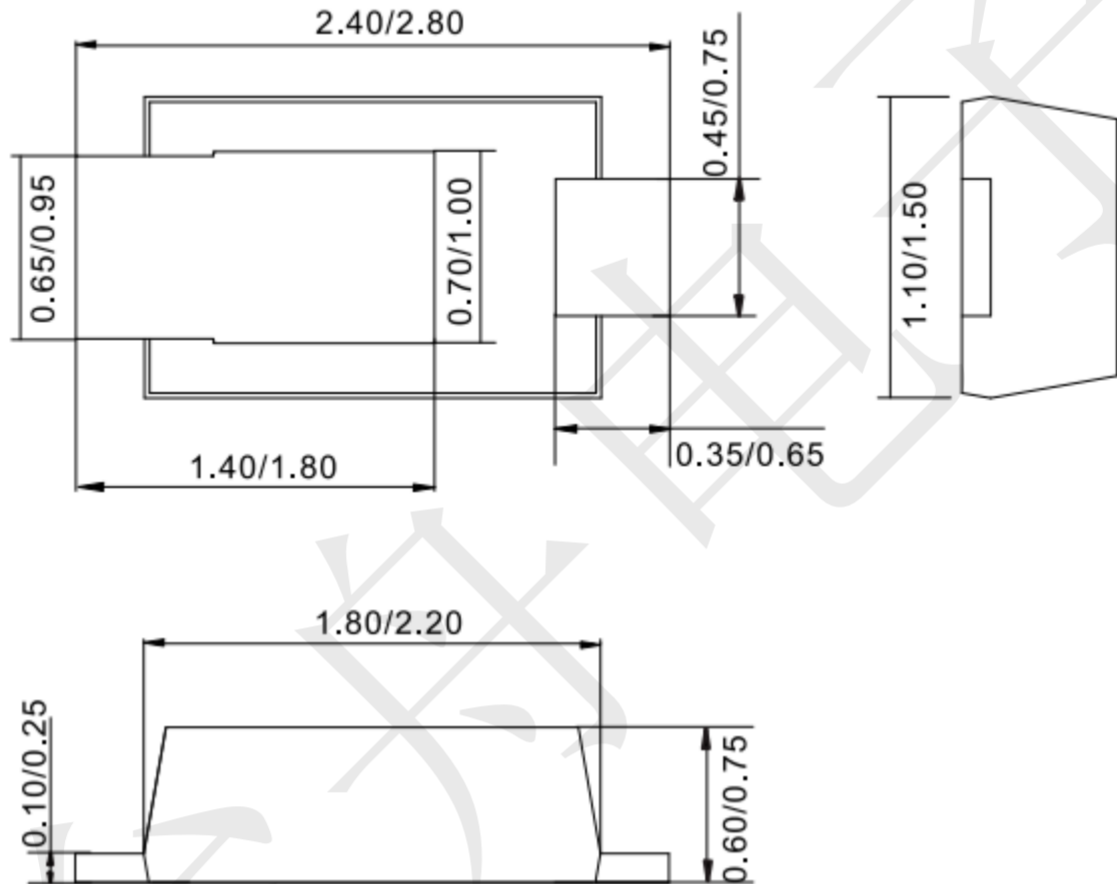


Fig. 6 - Typical Junction Capacitance



Package information (Unit: mm)

SOD323HE



Mounting Pad Layout (Unit: mm)

