

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



SOD323HE

PIN	DESCRIPTION
1	Cathode
2	Anode



Marking:16.x
“x” is internal code

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

Parameter	Symbol		Unit
Peak Repetitive Reverse Voltage	V_{RRM}	60	V
RMS Reverse Voltage	V_{RMS}	42	V
DC Blocking Voltage	V_{DC}	60	V
Average Forward Output Current	I_{F_AV}	1.0	A
Peak Forward Surge Current, 8.3ms Single Half Sine wave	I_{FSM}	25	A

Thermal Characteristics

Parameter	Symbol		Unit
Typical Thermal Resistance **	$R_{\theta JA}$	88	$^\circ\text{C/W}$
	$R_{\theta JC}$	35	
	$R_{\theta JL}$	22	
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	$I_F = 1.0\text{A}$	@ $T_A = 25^\circ\text{C}$	-	0.7	V
Reverse Current* ²	I_R	Rated V_R	@ $T_J = 25^\circ\text{C}$	-	100	
			@ $T_J = 100^\circ\text{C}$	-	10	mA

Typical Electrical Characteristic Curves

Fig.1 Forward Current Derating Curve

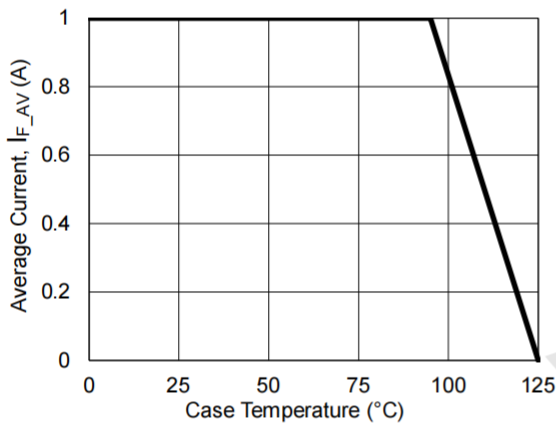


Fig.2 Surge Current Derating Curve

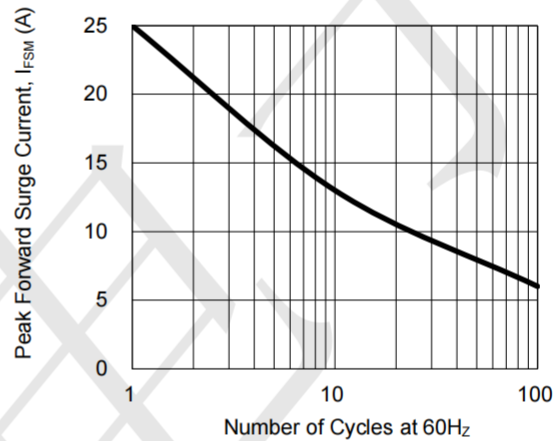


Fig.3 Typical Forward Voltage Characteristics

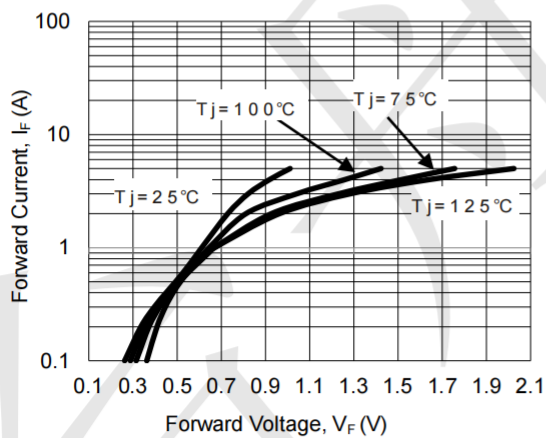
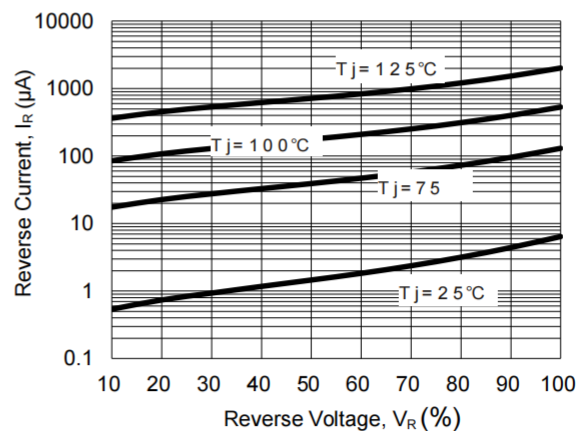
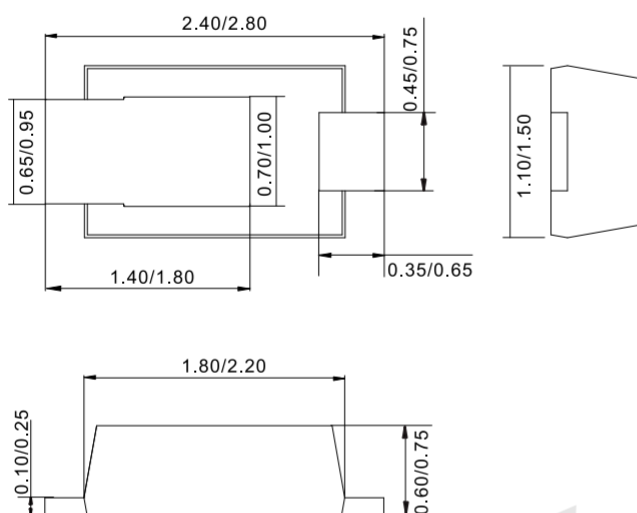


Fig.4 Typical Reverse Characteristics



Outline Drawing - SOD323HE (unit: mm)



Mounting Pad Layout-SOD323HE (unit: mm)

