



SD16WSTH

SCHOTTKY DIODE

FEATURES

- For use in low voltage
- Suffix "H" indicates Halogen-free parts, ex. SD16WSTH

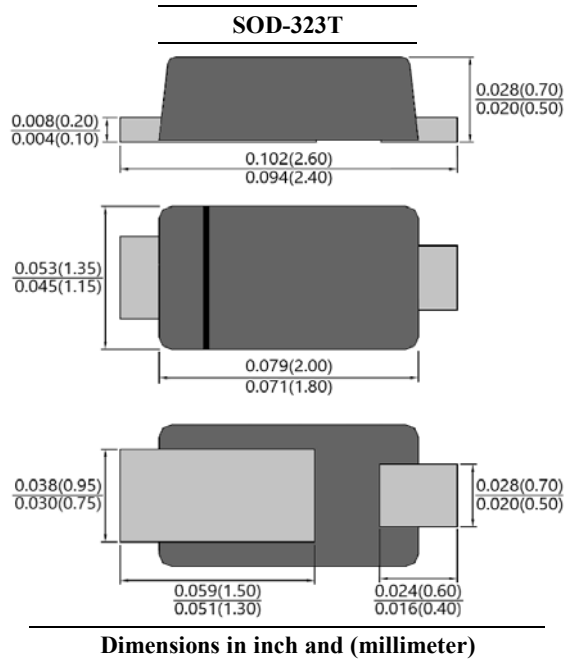
MECHANICAL DATA

Case : SOD-323T

Epoxy : UL 94V-O rate flame retardant

Polarity : Indicated by cathode band

Mounting position : Any



Maximum Ratings@ $T_A = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Value	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	60	V
Maximum RMS Voltage	V_{RMS}	42	V
Maximum DC Blocking Voltage	V_{DC}	60	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	1	A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	22	A
Thermal Resistance, Junction to Ambient (Note 1)	$R_{\theta JA}$	173	$^\circ\text{C/W}$
(Note 2)		125	
Junction Temperature Range	T_J	-65 to +150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-65 to +150	$^\circ\text{C}$

Note:

1. FR-4 PCB, 2 oz. Copper, minimum recommended pad layout per
2. Polyimide PCB, 2 oz. Copper, minimum recommended pad layout per

Electrical Characteristics@ $T_A = 25\text{ }^\circ\text{C}$

Parameter	Conditions	Symbol	Min.	Typ.	Max.	Unit
Reverse Voltage	$I_R = 100\mu\text{A}$	$V_{(BR)R}$	60	-	-	V
Forward Voltage	$I_F = 0.1\text{A}$	V_F	-	-	0.45	V
	$I_F = 0.7\text{A}$		-	-	0.58	
	$I_F = 1\text{A}$		-	-	0.64	
Reverse Leakage Current	$V_R = 5\text{V}, T_J = 25^\circ\text{C}$	I_R	-	-	5	μA
	$V_R = 60\text{V}, T_J = 25^\circ\text{C}$		-	-	100	
Junction Capacitance	$V_R = 10\text{V}, f = 1\text{MHz}$	C_J	-	38	-	pF



SD16WSTH SCHOTTKY DIODE

Typical Characteristics

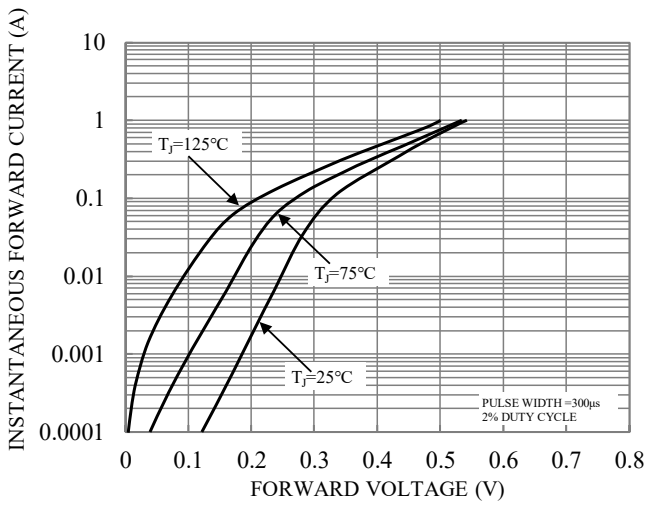


Fig. 1-TYPICAL FORWARD CHARACTERISTICS

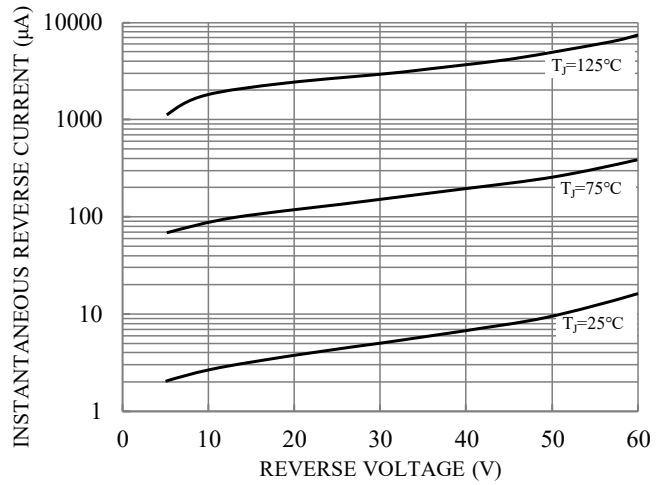


Fig. 2-TYPICAL REVERSE CHARACTERISTICS

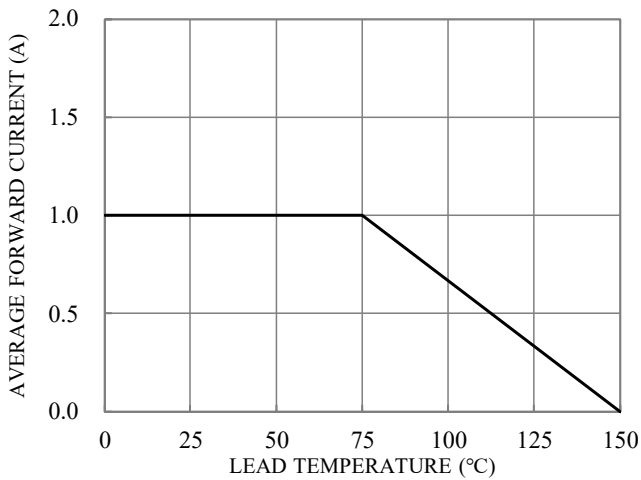


Fig. 3-FORWARD CURRENT DERATING CURVE