DSL14H-MHT-M

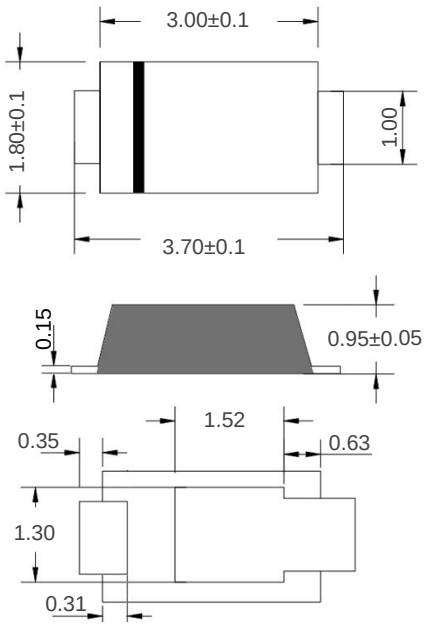
1.0A Low VF Surface Mount Schottky Barrier Rectifier- 40V

Features

- Standard schottky rectifier
- High forward surge current capability
- Low power loss, high efficiency
- High temperature soldering guaranteed: 260℃/10 seconds
- RoHS compliant
- Compliant to Halogen-free

Package outline

SOD-123HT-M



Dimensions in millimeters

Mechanical data

- Epoxy : UL94-V0 rated flame retardant
- Case : Molded plastic, SOD-123HT-M
- Terminals :Plated terminals, solderable per MIL-STD-750, Method 2026
- Polarity : Indicated by cathode band
- Mounting Position : Any

Maximum ratings and Electrical Characteristics (AT T_A=25°C unless otherwise noted)

PARAMETER	CONDITIONS	Symbol	MIN.	TYP.	MAX.	UNIT
Forward rectified current	See Fig.1	I_O			1.0	A
Forward surge current	8.3ms single half sine-wave (JEDEC methode)	I_{FSM}			40	A
Reverse current	V_R = V_{RRM} T_A = 25°C	I_R			0.1	mA
	V_R = V_{RRM} T_A = 125°C				10	
Thermal resistance	Junction to ambient	$R_{\theta JA}$		55		°C/W
Storage temperature		T_{STG}	-55		+150	°C

SYMBOLS	V_{RRM} *1 (V)	V_{RMS} *2 (V)	V_R *3 (V)	V_F *4 (V)	Operating temperature T_J, (°C)
DSL14H-MHT-M	40	28	40	0.45	-55 to +150

*1 Repetitive peak reverse voltage

*2 RMS voltage

*3 Continuous reverse voltage

*4 Maximum forward voltage@I_F=1.0A

Rating and characteristic curves

FIG.1: Forward Output Current Derating Curve

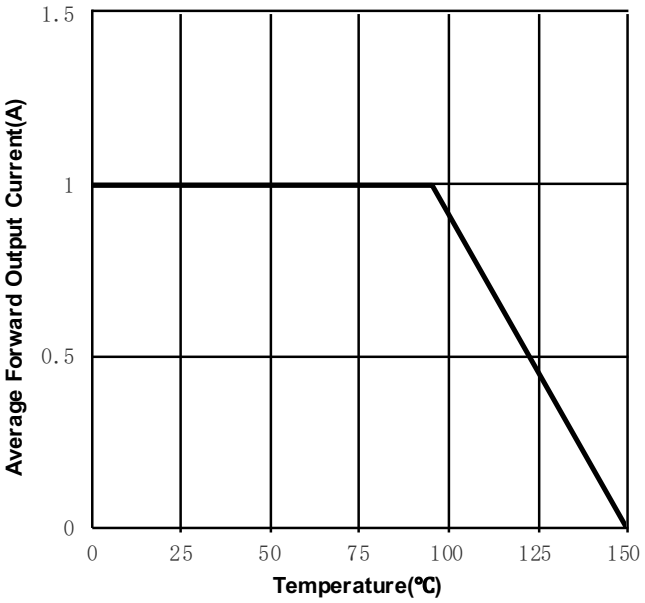


FIG.2: Maximum Non-Repetitive Peak Forward Surge Current

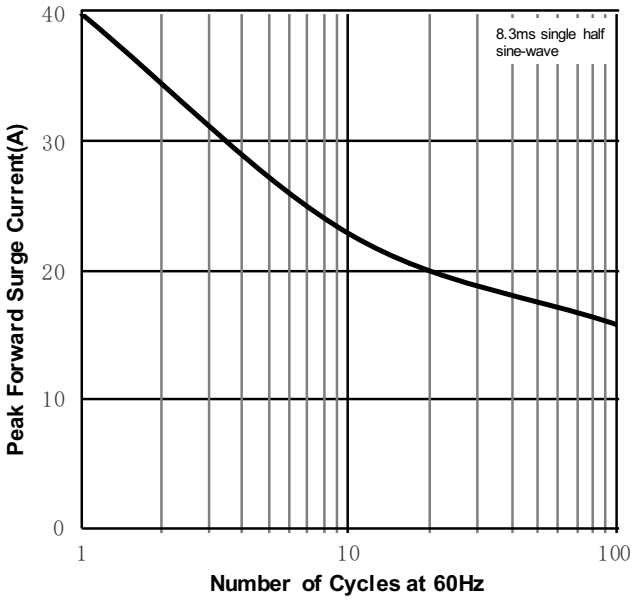


FIG.3: Typical Forward Characteristics

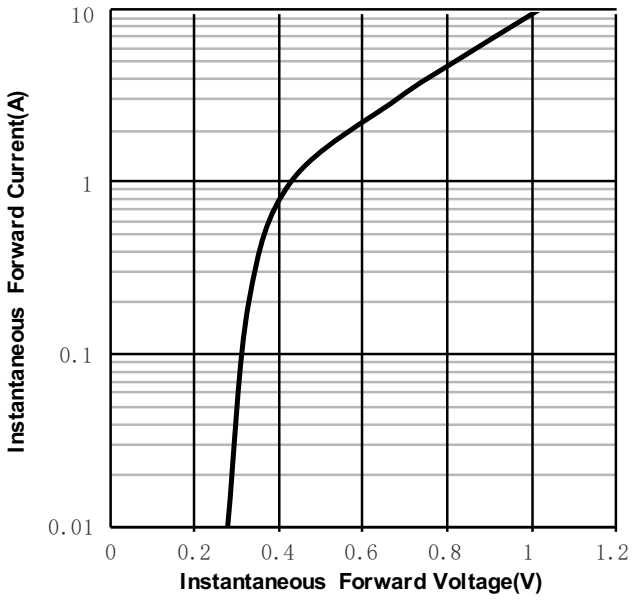
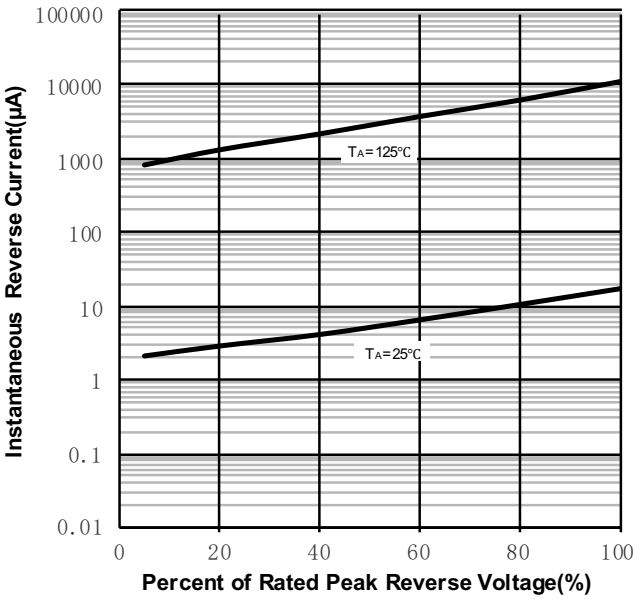


FIG.4: Typical Reverse Characteristics



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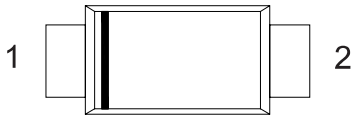
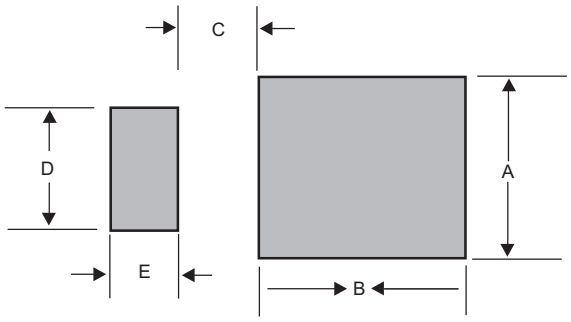
Pinning information

Pin	Simplified outline	Symbol
Pin1 cathode Pin2 anode		

Marking

Type number	Marking code
DSL14H-MHT-M	L14

Suggested solder pad layout



Dimensions in inches and (millimeters)

PACKAGE	A	B	C	D	E
SOD-123HT-M	0.071(1.80)	0.1106(2.70)	0.022(0.55)	0.059(1.50)	0.030(0.75)