

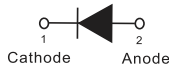
Surface Mount Schottky Rectifier

Features

- Low profile package
- Ideal for automated placement
- Guardring for overvoltage protection
- Low power losses, high efficiency
- High forward surge capability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C

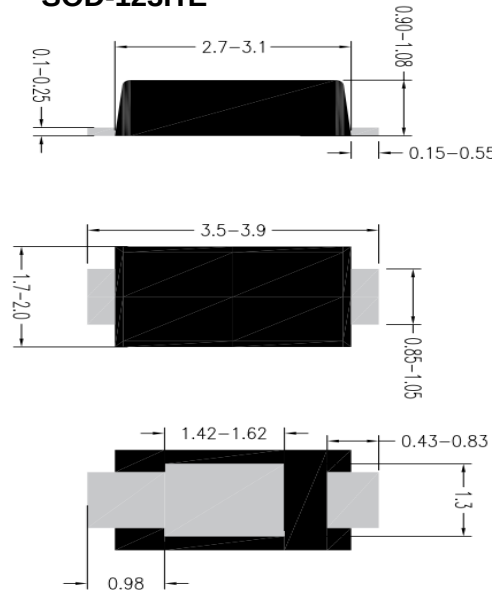
Mechanical Data

- Package: SOD-123HE
- Terminals: Tin plated leads, solderable per
- Polarity: Cathode line denotes the cathode end



SOD-123HE

Unit : inch(mm)



Maximum Ratings (T_A=25°C unless otherwise noted)

Parameter	Symbol	Unit	SS22HE	SS23HE	SS24HE	SS25HE	SS26HE	SS28HE	SS210HE	SS215HE	SS220HE
Repetitive peak reverse voltage	V _{RRM}	V	20	30	40	50	60	80	100	150	200
Average rectified output current @60Hz sine wave, Resistance load, T _a (FIG.1)	I _O	A	2.0								
Surge(non-repetitive)forward current @60Hz half-sine wave, 1 cycle, T _j =25°C	I _{FSM}	A	50								
Storage temperature	T _{stg}	°C	-55 ~+150								
Junction temperature	T _j	°C	-55 ~+150								

Electrical Characteristics (T_A=25°C unless otherwise noted)

Parameter	Symbol	Unit	Test Conditions	SS22HE	SS23HE	SS24HE	SS25HE	SS26HE	SS28HE	SS210HE	SS215HE	SS220HE
Maximum instantaneous forward voltage drop per diode	V _F	V	I _{FM} =2.0A	0.50			0.65		0.80		0.85	
Maximum DC reverse current at rated DC blocking voltage per diode @ VRM=VRRM	I _{RRM}	mA	Ta=25℃	0.10					0.05			
			Ta=100℃	10					5			



Thermal Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Unit	SS22HE	SS23HE	SS24HE	SS25HE	SS26HE	SS28HE	SS210HE	SS215HE	SS220HE
Thermal Resistance	R θ J-A	$^{\circ}\text{C}/\text{W}$	70 ¹⁾								
	R θ J-L		20 ¹⁾								

Note:

(1) Thermal resistance between junction and ambient and between junction and lead mounted on P.C.B with 3mm*3mm copper pad areas.

Characteristics (Typical)

FIG1: I_o - T_L Curve

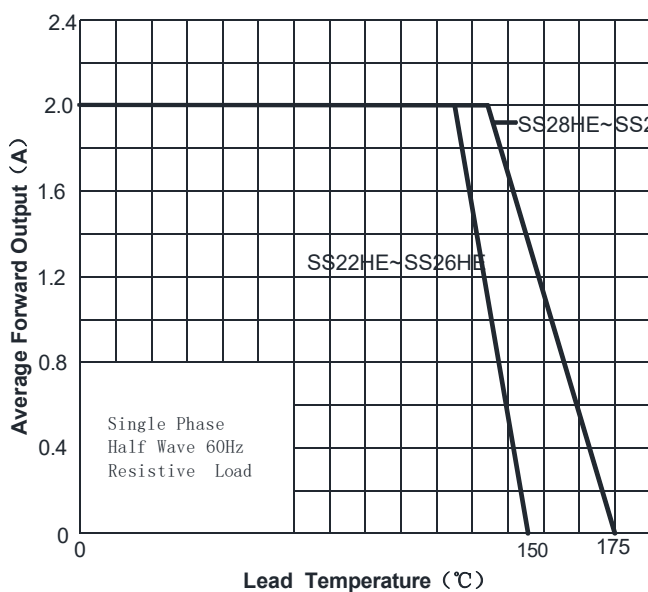


FIG2: Surge Forward Current Capability

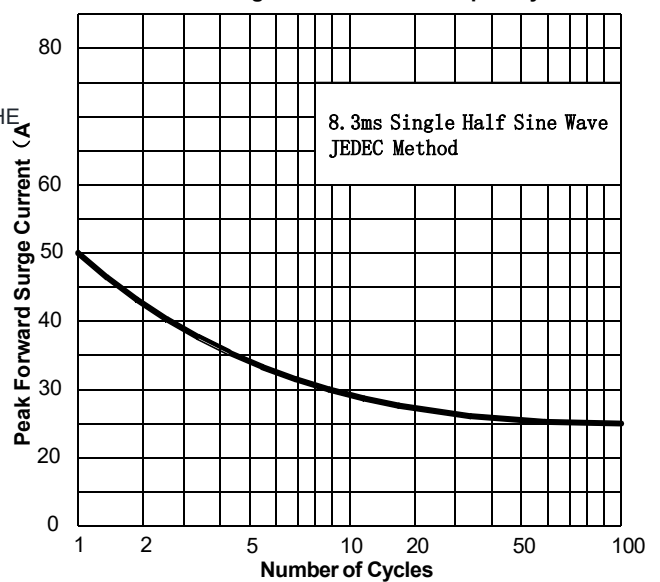


FIG3: Forward Voltage

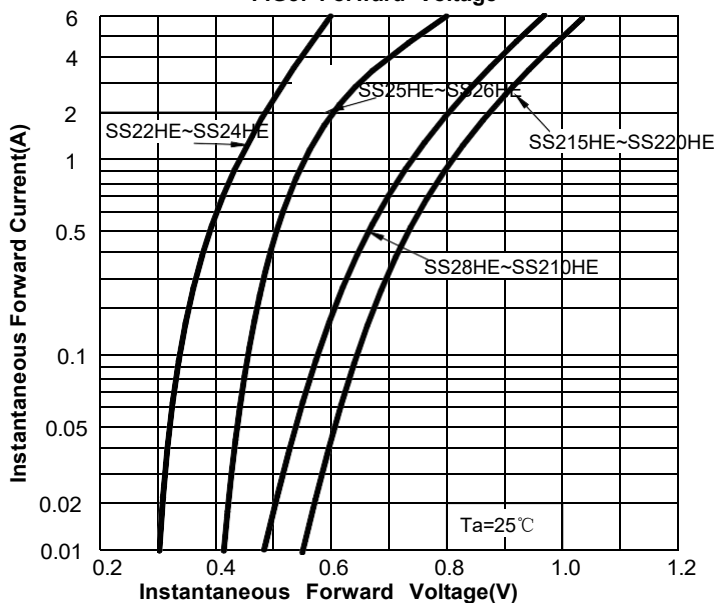


FIG4: Typical Reverse Characteristics

