

■ Features

- Low profile package
- Ideal for automated placement
- Guardring for overvoltage protection
- Low power losses, high efficiency
- High forward surge capability
- Compliant with RoHS standards, halogen-free
- 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

■ APPLICATIONS

- DC/DC converters
- Freewheeling
- low voltage high frequency inverters
- polarity protection applications

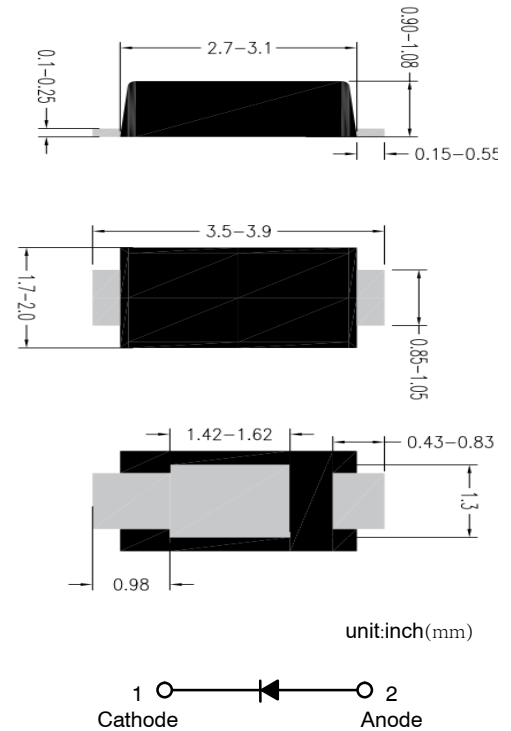
■ Maximum Ratings ($T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SS22HE	SS23HE	SS24HE	SS25HE	SS26HE	SS28HE	SS210HE	SS215HE	SS220HE
Repetitive peak reverse voltage	VRRM	V	20	30	40	50	60	80	100	150	200
Average rectified output current @60Hz sine wave, Resistance load, T_a (FIG.1)	IO	A	2.0								
Surge(non-repetitive)forward current @60Hz half-sine wave,1 cycle, $T_j=25^\circ\text{C}$	IFSM	A	40								
Storage temperature	Tstg	°C	-55 ~+150								
Junction temperature	Tj	°C	-55 ~+1				-55 ~+17				

■ Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	SS22HE	SS23HE	SS24HE	SS25HE	SS26HE	SS28HE	SS210HE	SS215HE	SS220HE
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=2.0A	0.55		0.70		0.85		0.95		
Maximum DC reverse current at rated DC blocking voltage per diode @ $V_{RM}=V_{RRM}$	IRRM	mA	$T_a=25^\circ\text{C}$	0.50				0.10				
			$T_a=100^\circ\text{C}$	10				5				

SOD-123HE





■ Thermal Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SS22HE	SS23HE	SS24HE	SS25HE	SS26HE	SS28HE	SS210HE	SS215HE	SS220HE
Thermal Resistance	RθJ-A	°C/W	70 ¹⁾								
	RθJ-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:Io-TL Curve

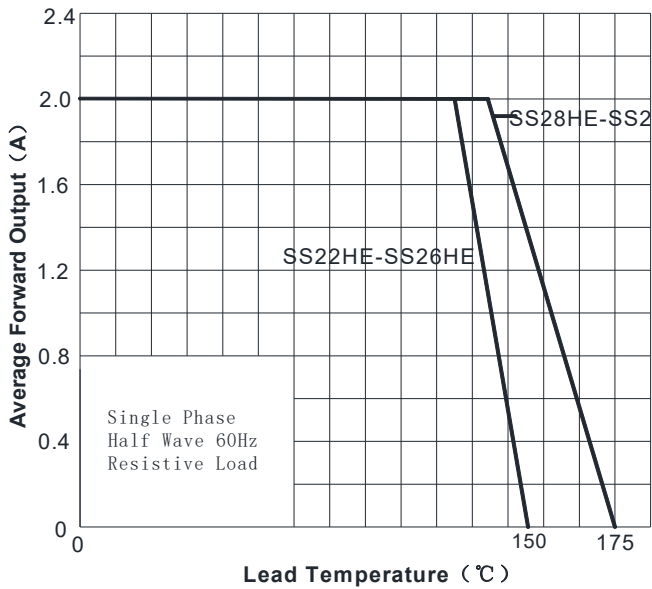


FIG2: Surge Forward Current Capability

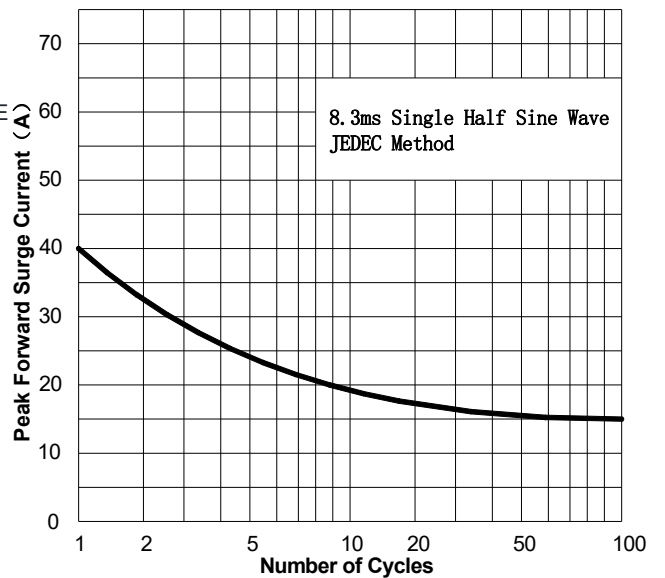


FIG3: Forward Voltage

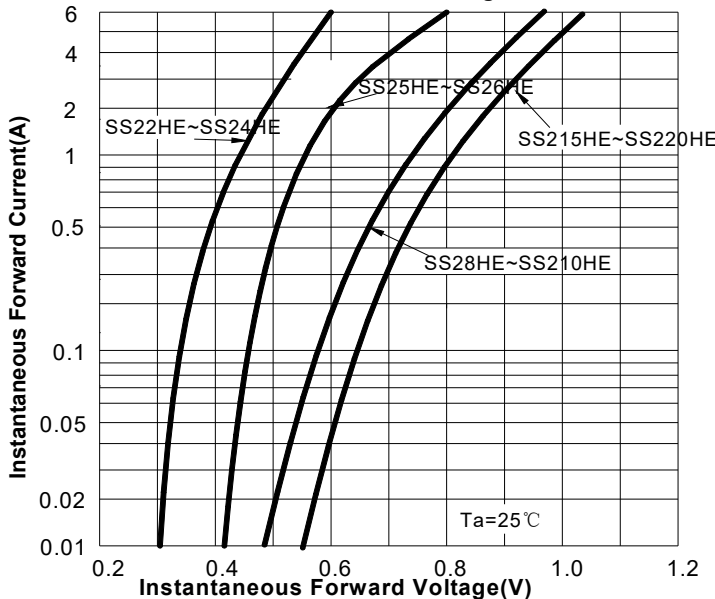
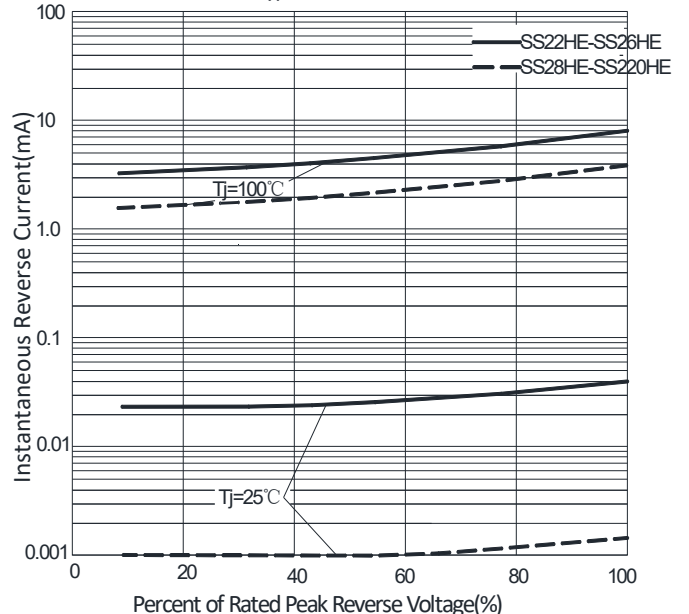


FIG4: Typical Reverse Characteristics



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