

## Features

- Halogen Free. "Green" Device (Note 1)
- AEC-Q101 Qualified
- Guard Ring Protection
- Lead Free Finish/RoHS Compliant(Note 2) ("P" Suffix Designates Compliant. See Ordering Information)
- Low Forward Voltage
- High Current Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

## Maximum Ratings

- Operating Junction Temperature Range(20V~40V): -55°C to +125°C
- Operating Junction Temperature Range(60V~100V): -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 75°C/W Junction to Ambient
- Typical Thermal Resistance: 25°C/W Junction to Case
- Typical Thermal Resistance: 15°C/W Junction to Lead

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SS22HE3-L	SS22	20V	14V	20V
SS23HE3-L	SS23	30V	21V	30V
SS24HE3-L	SS24	40V	28V	40V
SS25HE3-L	SS25	50V	35V	50V
SS26HE3-L	SS26	60V	42V	60V
SS28HE3-L	SS28	80V	56V	80V
SS210HE3-L	SS210	100V	70V	100V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	2.0A	See Fig.1
Peak Forward Surge Current	$I_{FSM}$	50A	8.3ms, Half Sine
Maximum Instantaneous Forward Voltage SS22HE3-L~SS24HE3-L SS25HE3-L~SS26HE3-L SS28HE3-L~SS210HE3-L	$V_F$	0.55V 0.70V 0.85V	$I_{FM}=2.0A$ ; $T_J=25^\circ C^*$
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	0.1mA	$T_J=25^\circ C$ ;
Typical Junction Capacitance SS22HHE3-L~SS28HE3-L SS210HE3-L	$C_J$	90pF 70pF	Measured at 1.0MHz, $V_R=4.0V$

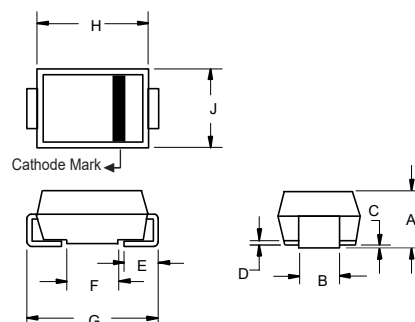
\*Pulse test: Pulse width 300  $\mu$ sec, Duty cycle 2%

Note:

1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
2. High Temperature Solder Exemption Applied, see EU Directive Annex 7a.

# 2 Amp Schottky Rectifier 20 to 100 Volts

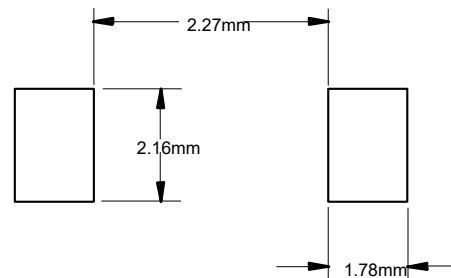
## SMA (DO-214AC)



### DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.075	0.096	1.90	2.44	
B	0.050	0.064	1.27	1.63	
C	0.002	0.008	0.051	0.203	
D	---	0.020	---	0.51	
E	0.030	0.060	0.76	1.52	
F	0.065	0.091	1.65	2.32	
G	0.189	0.220	4.80	5.59	
H	0.157	0.187	4.00	4.75	
J	0.090	0.115	2.25	2.92	

### SUGGESTED SOLDER PAD LAYOUT



## Curve Characteristics

Fig. 1 - Forward Current Derating Curve

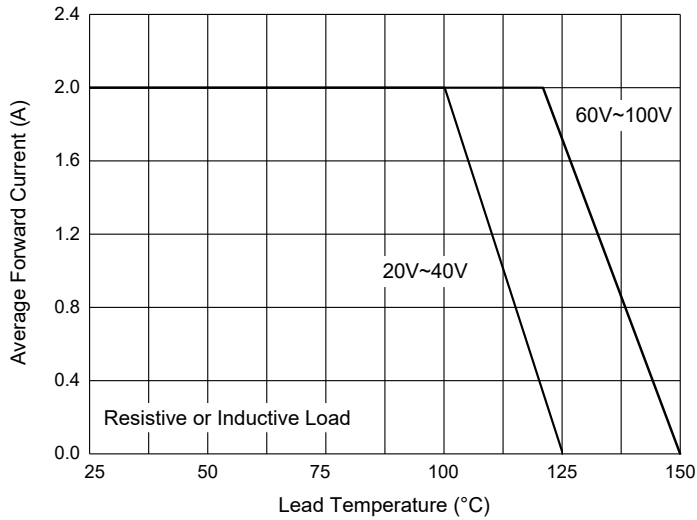


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

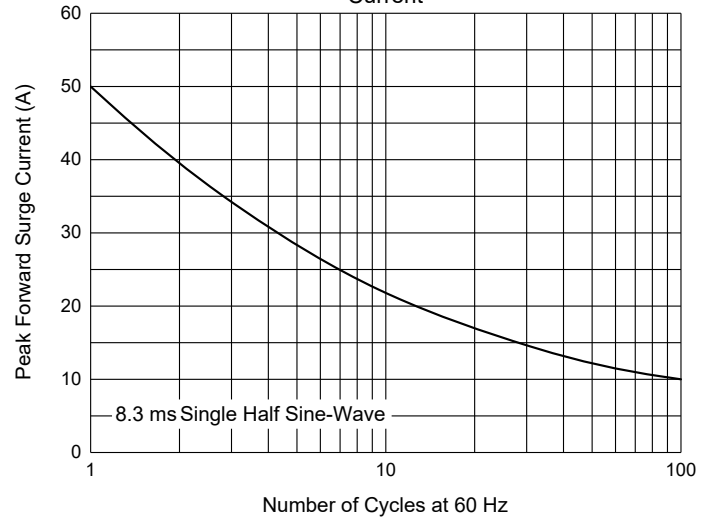


Fig. 3 - Typical Instantaneous Forward Characteristics

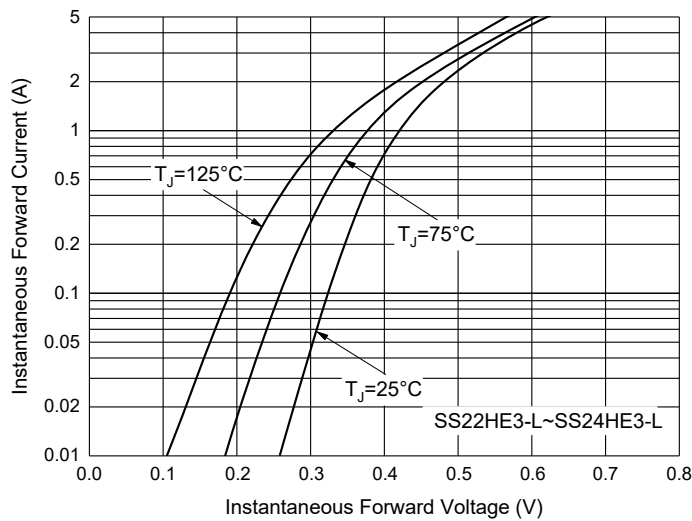


Fig. 4 - Typical Instantaneous Forward Characteristics

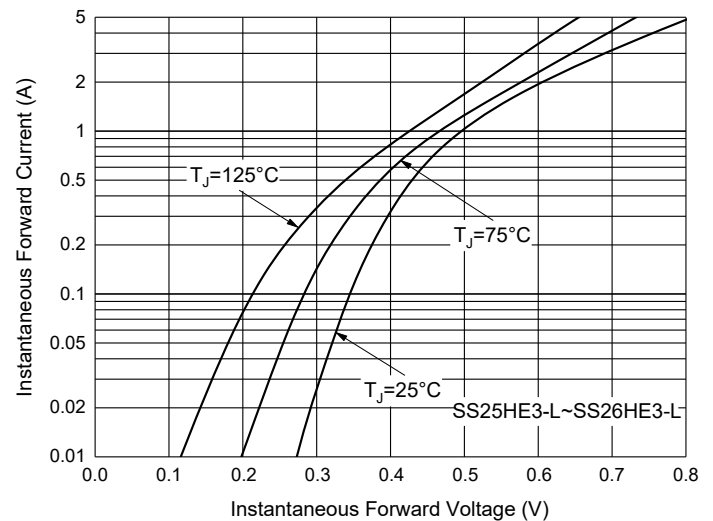


Fig. 5 - Typical Instantaneous Forward Characteristics

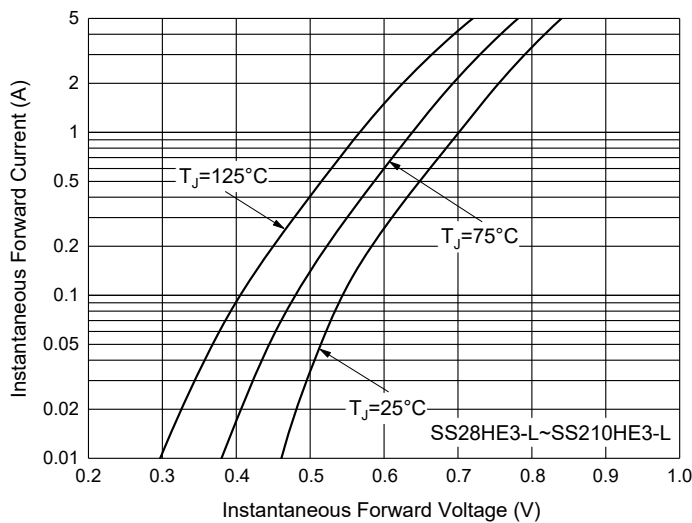
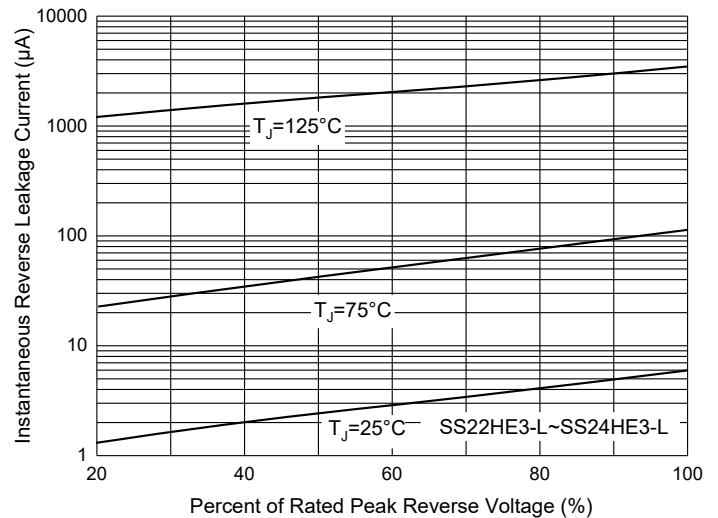


Fig. 6 - Typical Reverse Leakage Characteristics



## Curve Characteristics

Fig. 7 - Typical Reverse Leakage Characteristics

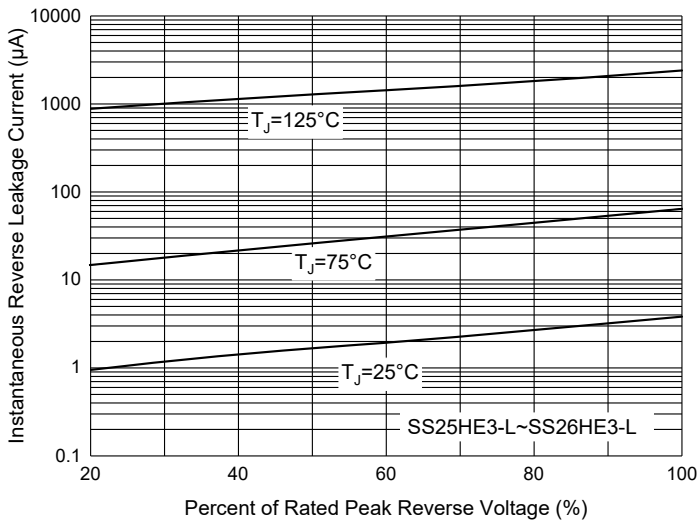


Fig. 8 - Typical Reverse Leakage Characteristics

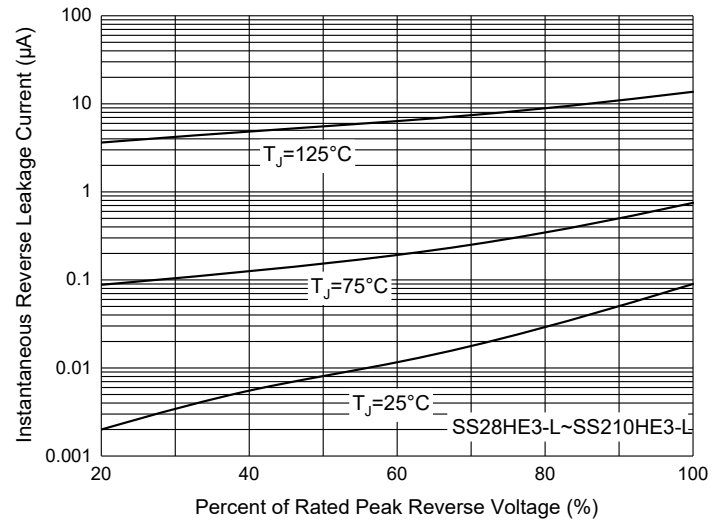


Fig.9 Capacitance Characteristics

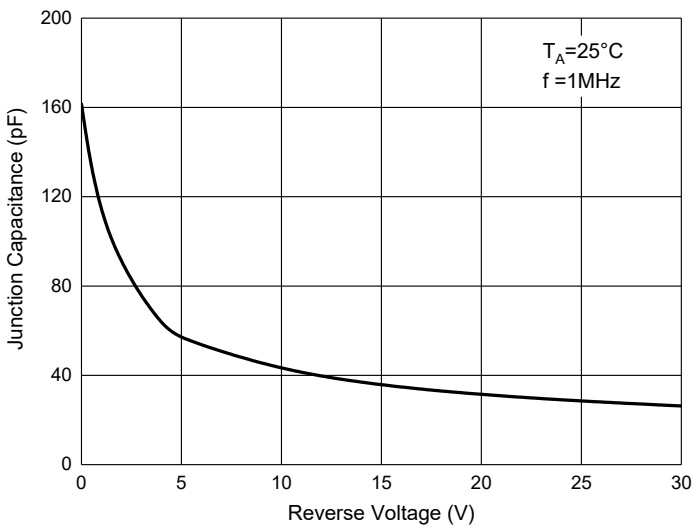
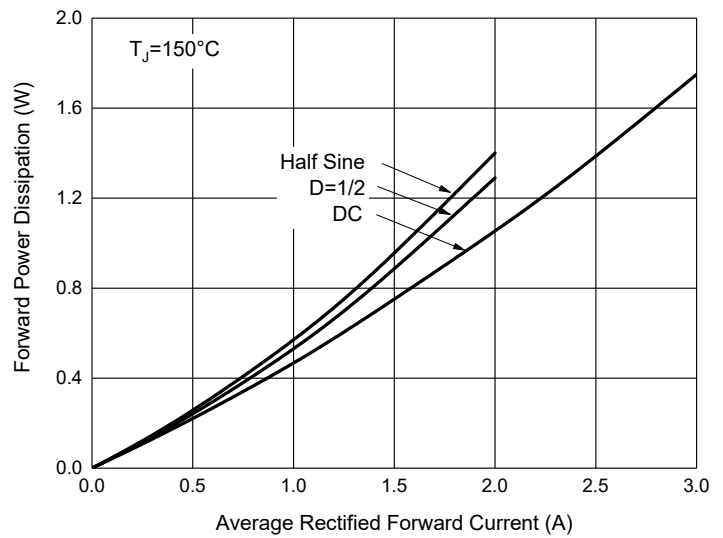


Fig.10 Forward Power Dissipation Characteristics



## Ordering Information

Device	Packing
SS22HE3-LTP~SS210HE3-LTP	Tape&Reel: 5Kpcs/Reel

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