

Features

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

Maximum Ratings @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Value							Unit
		SS22 HE3-L	SS23 HE3-L	SS24 HE3-L	SS25 HE3-L	SS26 HE3-L	SS28 HE3-L	SS210 HE3-L	
Peak Repetitive Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	V
Working Peak Reverse Voltage	V_{RWM}								
DC Blocking Voltage	V_R								
RMS Reverse Voltage	V_{RMS}	14	21	28	35	42	56	70	V
Average Rectified Forward Current	$I_{F(AV)}$	2							A
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I_{FSM}	50							A
Current Squared Time @ 1ms ≤ t ≤ 8.3ms	I^2t	10.375							A ² s

Marking code

Part Number	Marking Code
SS22HE3-L	SS22
SS23HE3-L	SS23
SS24HE3-L	SS24
SS25HE3-L	SS25
SS26HE3-L	SS26
SS28HE3-L	SS28
SS210HE3-L	SS210

Internal Structure

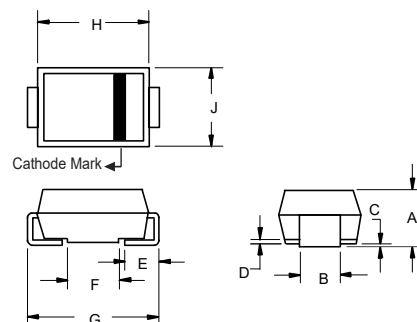
Pin	Description	Simplified Outline	Graphic Symbol
1	Cathode	XXXX = Marking Code YYWW = Date Code	
2	Anode		

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.

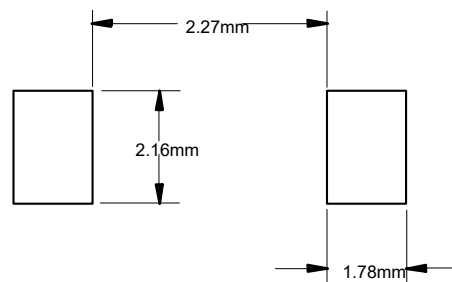
2 Amp Surface Mount Schottky Rectifier 20 to 100 Volts

SMA (DO-214AC)



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



Thermal characteristics

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
T_J	Operating Junction Temperature Range		-55		150	°C
T_{stg}	Storage Temperature Range		-55		150	°C
$R_{th(J-L)}$	Thermal Resistance from Junction to Lead	Note 1		20		°C/W
$R_{th(J-A)}$	Thermal Resistance from Junction to Ambient	Note 1		75		°C/W

Note:

1. Mounted on P.C.B. with 8.0 mm x 8.0 mm copper pad areas.

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage SS22HE3-L ~ SS24HE3-L SS25HE3-L ~ SS26HE3-L SS28HE3-L ~ SS210HE3-L	V_F	$I_F=2A; T_J=25^{\circ}C$			0.55 0.70 0.85	V
Reverse Current	I_R	at Rated $V_R; T_J=25^{\circ}C$ at Rated $V_R; T_J=125^{\circ}C$			0.1 20	mA
Junction Capacitance SS22HE3-L ~ SS24HE3-L SS25HE3-L ~ SS26HE3-L SS28HE3-L ~ SS210HE3-L	C_J	$V_R=4V; f=1MHz; T_J=25^{\circ}C$		115 95 60		pF

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

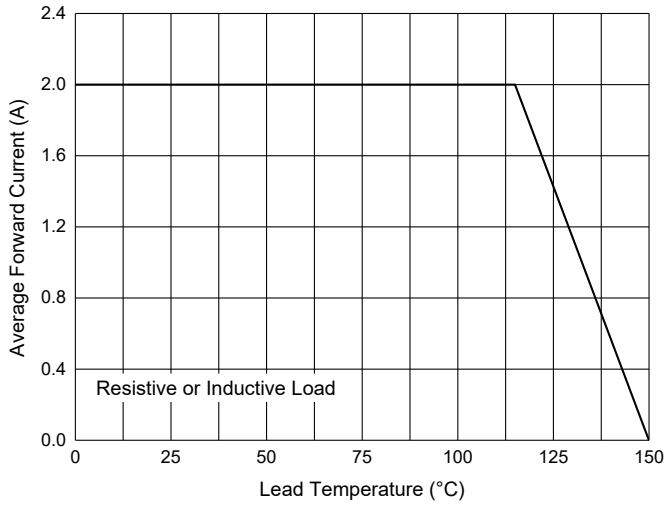


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

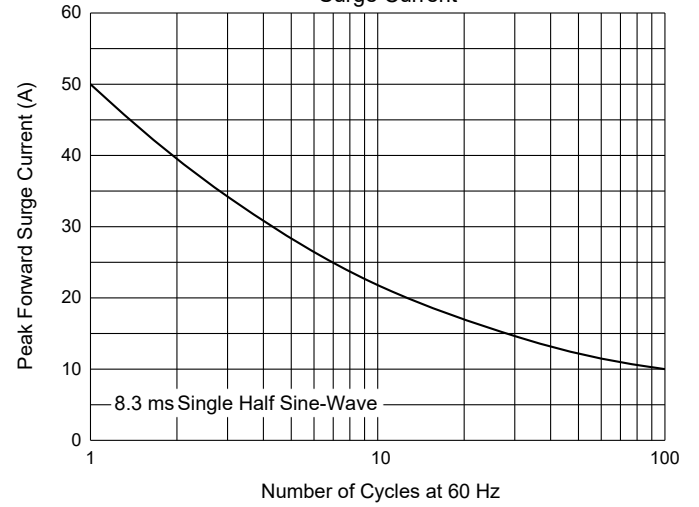


Fig. 3 - Typical Forward Characteristics

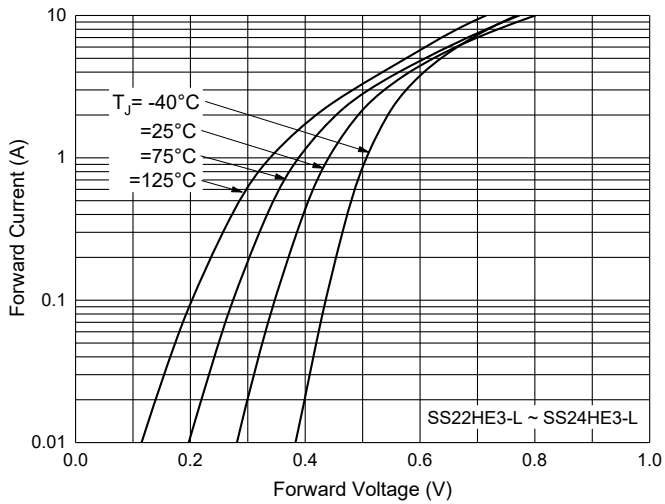


Fig. 4 - Typical Reverse Leakage Characteristics

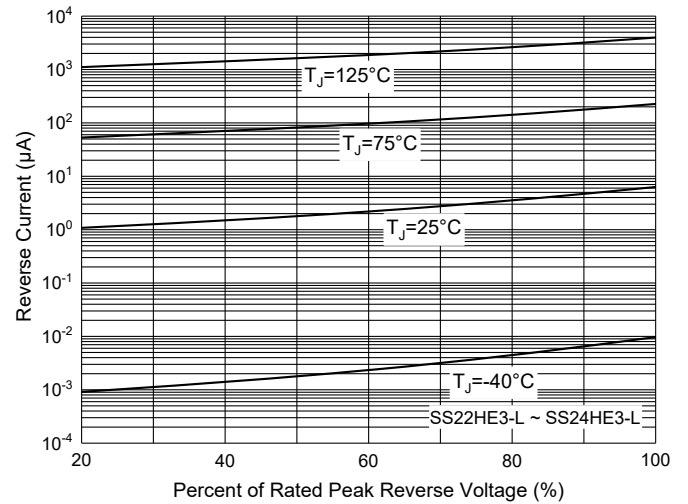


Fig. 5 - Typical Forward Characteristics

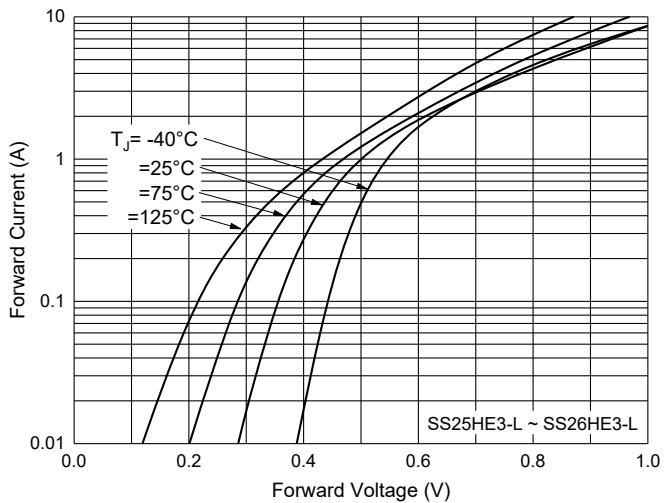
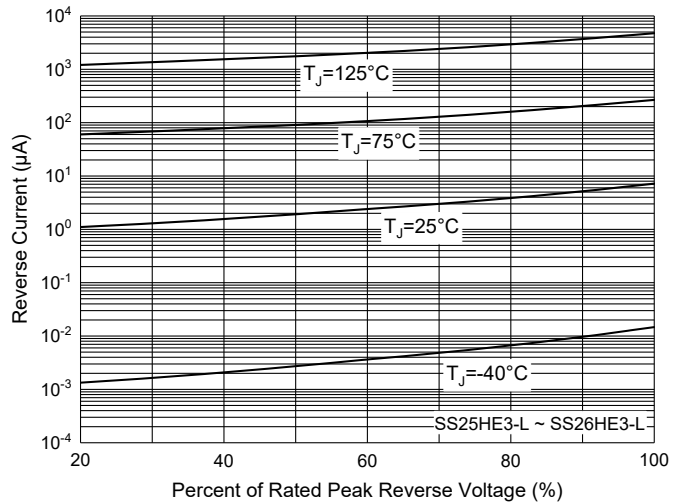


Fig. 6 - Typical Reverse Leakage Characteristics



Curve Characteristics

Fig. 7 - Typical Forward Characteristics

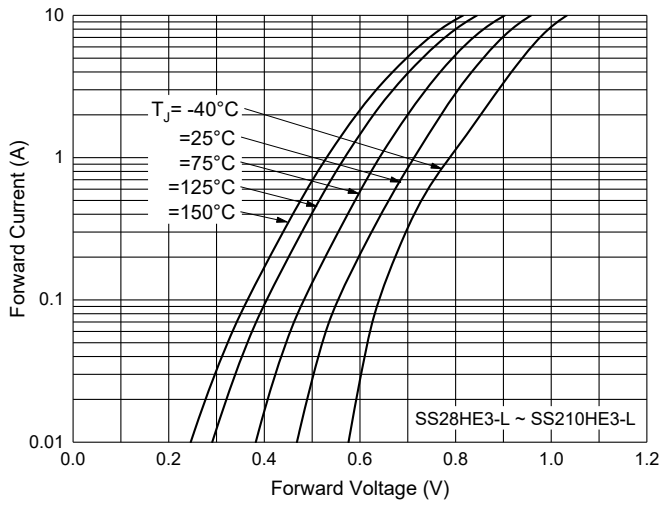


Fig. 8 - Typical Reverse Leakage Characteristics

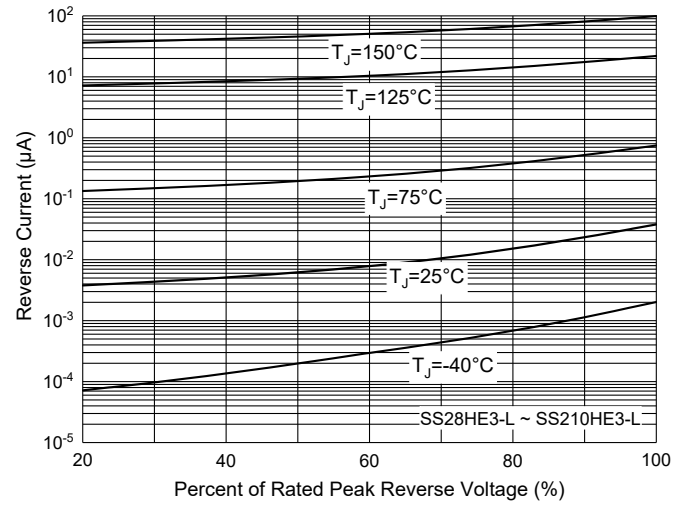


Fig. 9 - Capacitance Characteristics

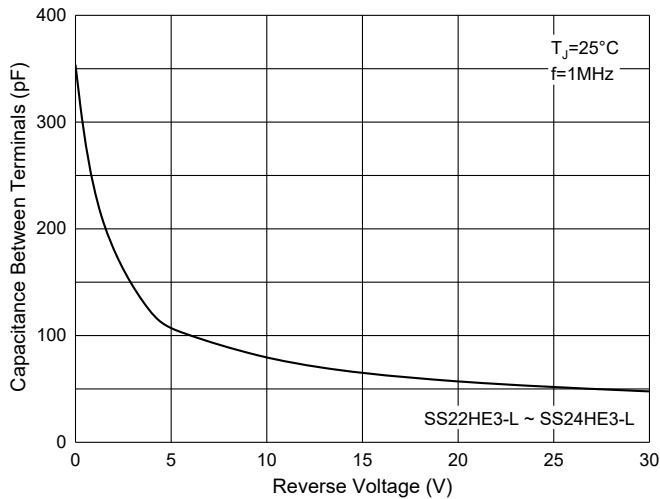


Fig. 10 - Capacitance Characteristics

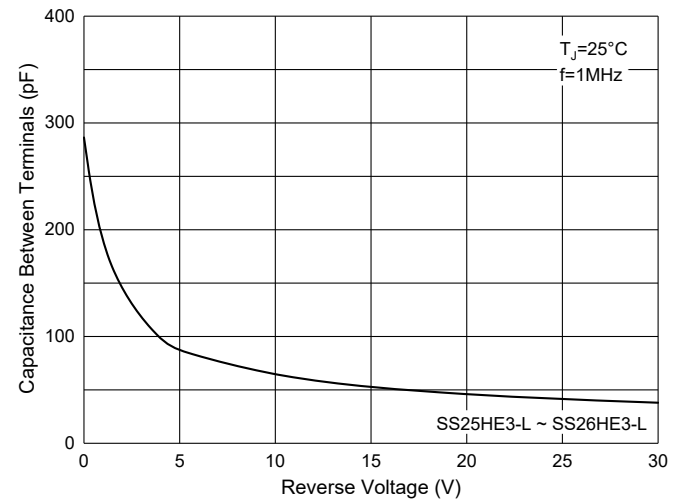
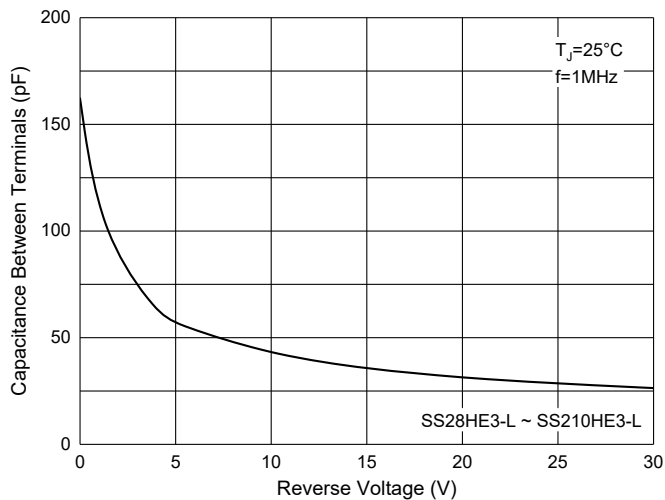


Fig. 11 - Capacitance Characteristics



Ordering Information

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

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