

Features

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

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +175°C
- Storage Temperature Range: -55°C to +175°C
- Typical Thermal Resistance: 75°C/W Junction to Ambient(Note2)
- Typical Thermal Resistance: 17°C/W Junction to Lead(Note2)

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SS220HE3-L	SS220	200V	140V	200V

Electrical Characteristics @ 25°C Unless Otherwise Specified

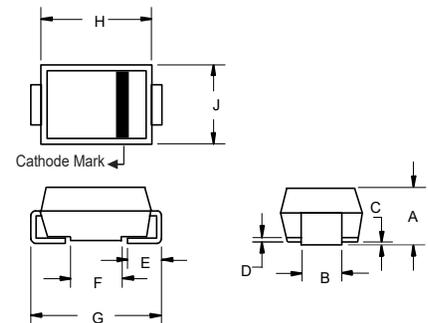
Average Forward Current	$I_{F(AV)}$	2.0A	$T_L=125^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	75A	8.3ms, Half Sine
Instantaneous Forward Voltage	V_F	0.82V(Typ.) 0.90V(Max.) 0.75V(Max.)	$I_{FM}=2.0A; T_J=25^\circ\text{C}$ $I_{FM}=2.0A; T_J=25^\circ\text{C}$ $I_{FM}=2.0A; T_J=125^\circ\text{C}$
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	5uA 150uA	$T_J=25^\circ\text{C};$ $T_J=125^\circ\text{C};$
Voltage Rate of Change (Rated V_R)	dV/dt	10000 V/ μs	
Typical Junction Capacitance	C_J	40pF	Measured at 1.0MHz, $V_R=4.0V$

Note :

1. High Temperature Solder Exemption Applied, see EU Directive Annex 7a.
2. Mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas.

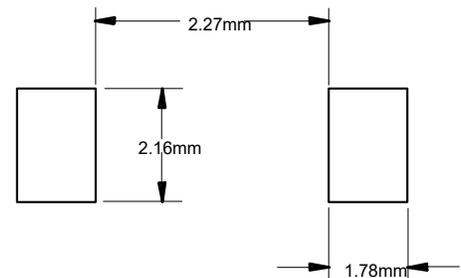
2 Amp Schottky Rectifier 200 Volts

SMA (DO-214AC)



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	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

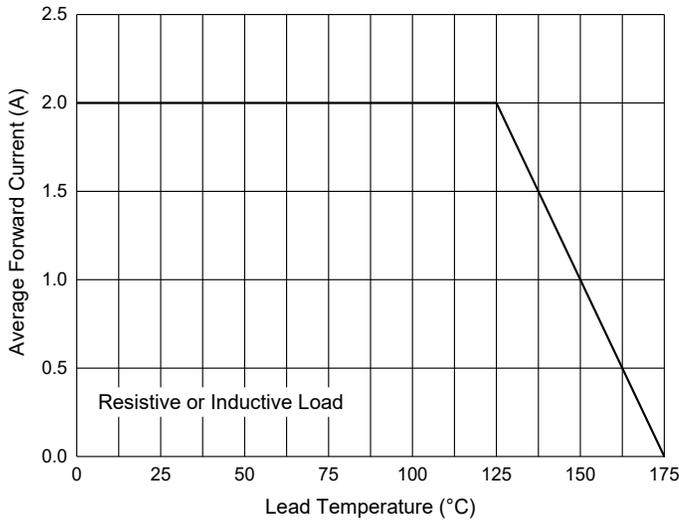


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

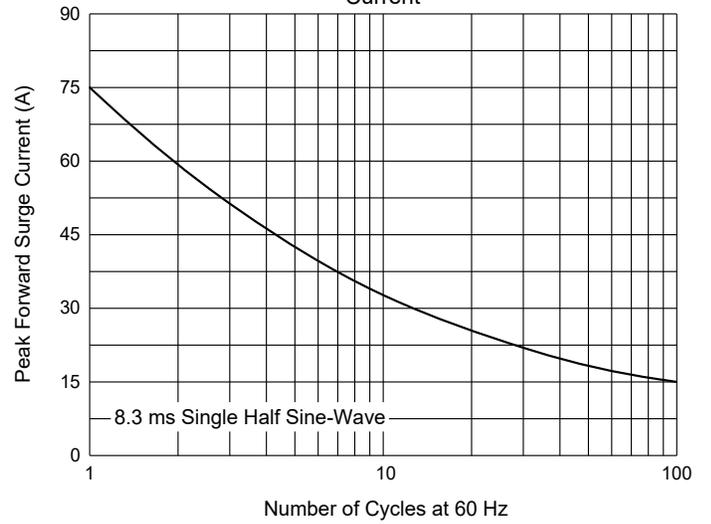


Fig. 3 - Typical Instantaneous Forward Characteristics

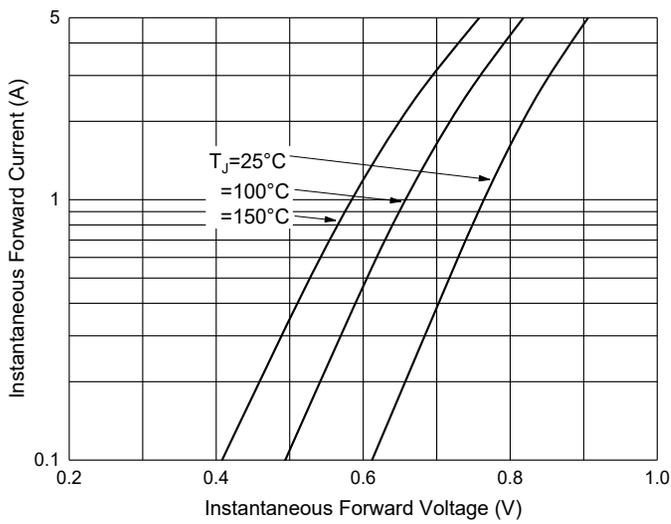
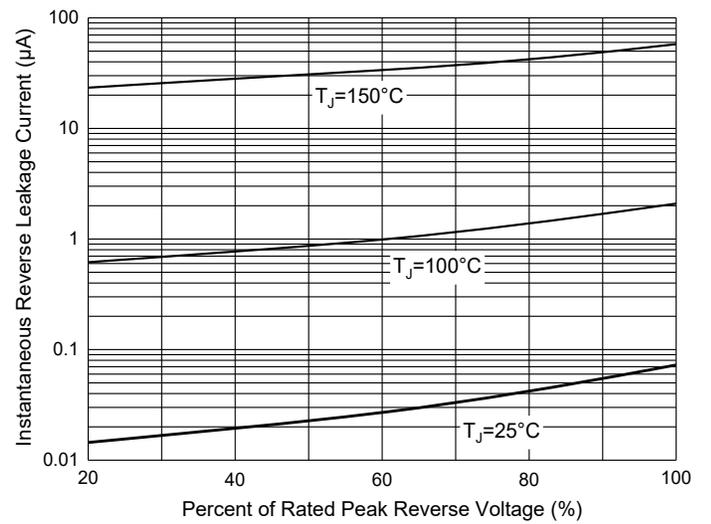


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

Device	Packing
SS220HE3-LTP	Tape&Reel: 5Kpcs/Reel

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