

Features

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

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +175°C
- Storage Temperature Range: -55°C to +175°C
- Thermal Resistance: 75°C/W Junction to Ambient(Note2)
- 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
SK220HE3-L	SK220	200V	140V	200V

Electrical Characteristics @ 25°C Unless Otherwise Specified

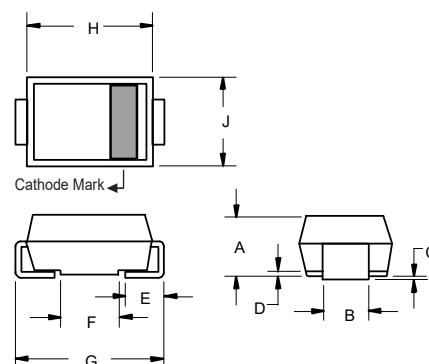
Average Forward Current	$I_{F(AV)}$	2.0A	$T_L=125^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	75A	8.3ms, Half Sine
Instantaneous Forward Voltage	V_F	0.82V(Typ.) 0.90V(Max.) 0.75V(Max.)	$I_{FM}=2.0\text{A}; T_J=25^\circ\text{C}$ $I_{FM}=2.0\text{A}; T_J=25^\circ\text{C}$ $I_{FM}=2.0\text{A}; T_J=125^\circ\text{C}$
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, $V_R=4.0\text{V}$

Note :

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

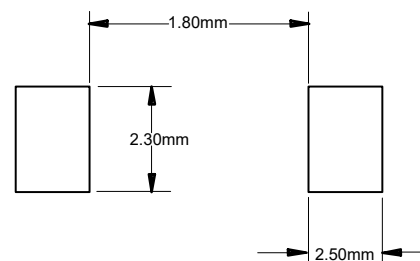
2 Amp Schottky Rectifier 200 Volts

DO-214AA (SMB) (LEAD FRAME)



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.079	0.103	2.00	2.62	
B	0.075	0.087	1.91	2.21	
C	0.002	0.008	0.05	0.20	
D	0.006	0.012	0.15	0.31	
E	0.030	0.060	0.76	1.52	
F	0.065	0.091	1.65	2.32	
G	0.200	0.220	5.08	5.59	
H	0.160	0.191	4.06	4.85	
J	0.130	0.155	3.30	3.94	

Suggested Solder Pad Layout



Curve Characteristics

Fig. 1 - Forward Current Derating Curve

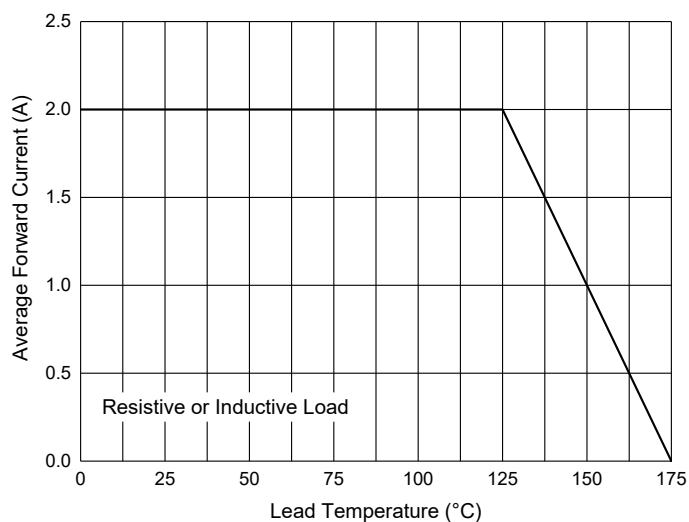


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

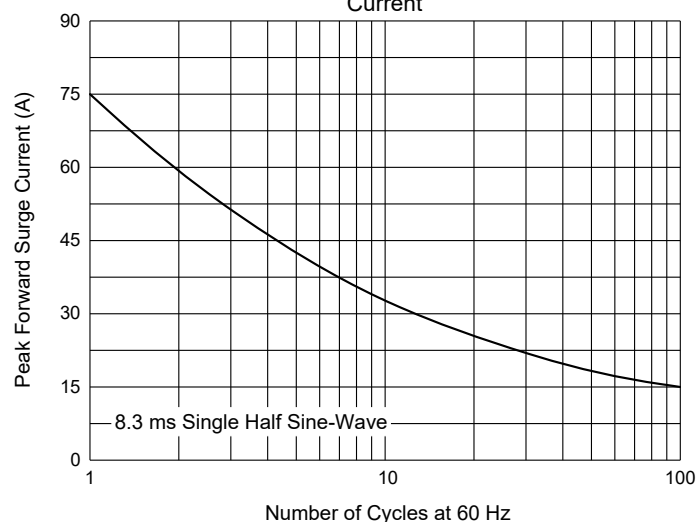


Fig. 3 - Typical Instantaneous Forward Characteristics

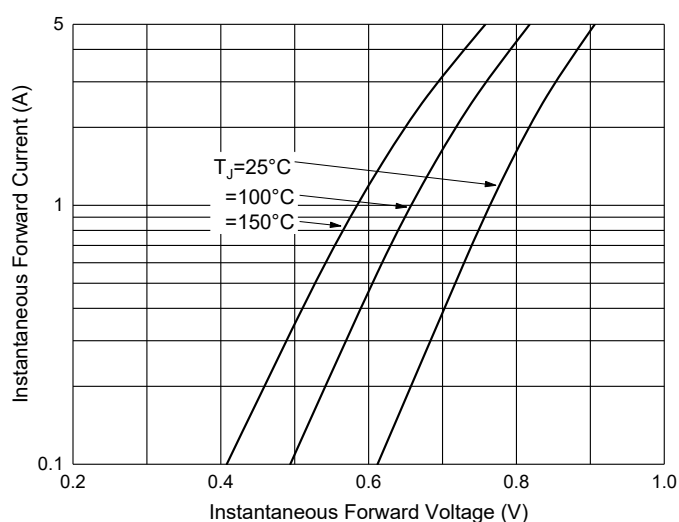
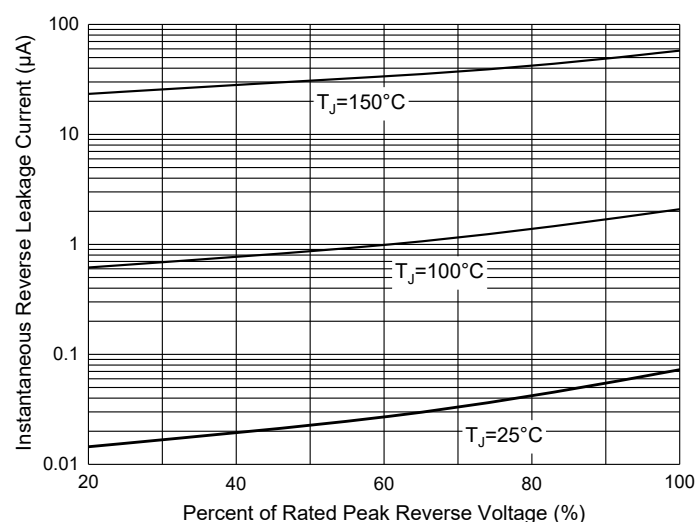


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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