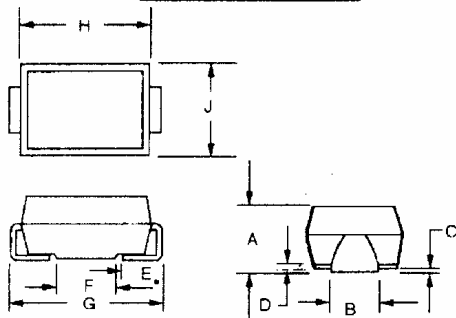


SM3F

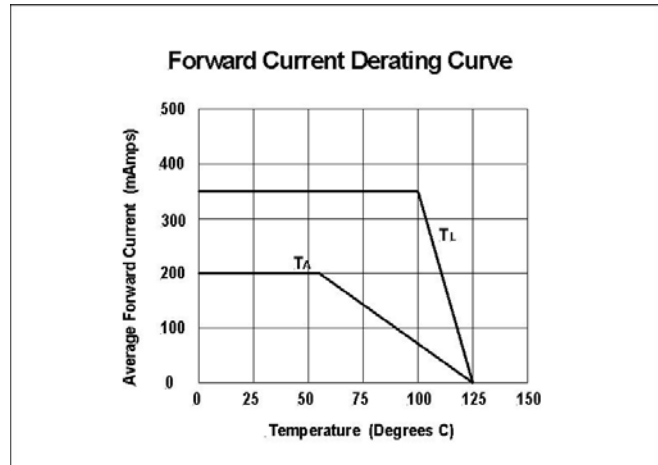


3,000V Fast Recovery Surface Mount

SMA/DO-214AC



DIMENSIONS					
	inches		mm		
	Min	Max	Min	Max	
A	0.078(L)	0.116(L)	1.98(L)	2.95(L)	
A	0.110(H)	0.117(H)	2.80(H)	2.98(H)	
B	0.067	0.088	1.7	2.24	
C		0.008		0.20	
D		0.02		0.51	
E	0.030	0.060	0.76	1.52	
F	0.065	0.094	1.65	2.39	
G	0.204	0.220	5.21	5.59	
H	0.160	0.190	4.06	4.57	
I	0.101	0.112	2.56	2.85	



NOTE*THIS IS A PRELIMINARY DATA SHEET AND IS SUBJECT TO CHANGE****

Surface Mount High Voltage Diode

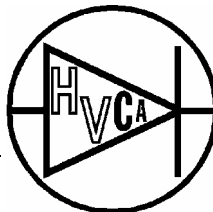
SM3F		
Repetitive Peak Reverse Voltage	V_{RRM}	3,000 Volts
Average Forward Current Max @ $T_A=55^\circ\text{C}$	I_{FAVM}	200 mAmps
Average Forward Current Max @ $T_L=100^\circ\text{C}$	I_{FAVM}	350 mAmps
Maximum Forward Voltage Drop, @ $I_F=100$ mAmps	V_F	3.0 Volts
Maximum Reverse Current @ V_{RRM} @ 25°C	I_R	5.0 μAmps
Typical Reverse Recovery Time @ $I_F=20\text{mA}$, $I_R=40\text{mA}$, $I_{rr}=10\text{mA}$	T_{RR}	75 nsec
Typical Reverse Recovery Time @ $I_F=5\text{mA}$, $I_R=10\text{mA}$, $I_{rr}=2.5\text{mA}$	T_{RR}	100 nsec
Maximum Surge Current (8.3ms Sine Wave)	I_{FSM}	15 Amps
Typical Junction Capacitance (NOTE 1)	C_J	15 pF
Typical Thermal Resistance (NOTE 2)	$R_{\theta JA}$	30 $^\circ\text{C/W}$
Typical Thermal Resistance (NOTE 2)	$R_{\theta JL}$	7 $^\circ\text{C/W}$
Operating Temperature	T_A	-35 $^\circ\text{C}$ to 125 $^\circ\text{C}$
Storage Temperature	T_{STG}	-55 $^\circ\text{C}$ to 150 $^\circ\text{C}$

NOTES:

- (1) Measured at 1kHz
- (2) Thermal resistance from junction to ambient and from junction to lead
P.C.B. mounted on 0.2" x 0.2" (5.0 x 5.0mm) copper pad areas

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HV Component Associates specializes in the design, development and manufacture of high voltage rectifiers and diodes, voltage multipliers, bridge rectifiers, standard, fast, and ultra fast rectifier

devices, and special assemblies for exacting custom applications. Our experience and our highly advanced technology provide the most economical and highest quality rectifiers available today.