



Micro Commercial Components



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Features

- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)
- Halogen free available upon request by adding suffix "-HF"
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- High Surge Current Capability
- Low Leakage
- Glass Passivated Chip

Maximum Ratings

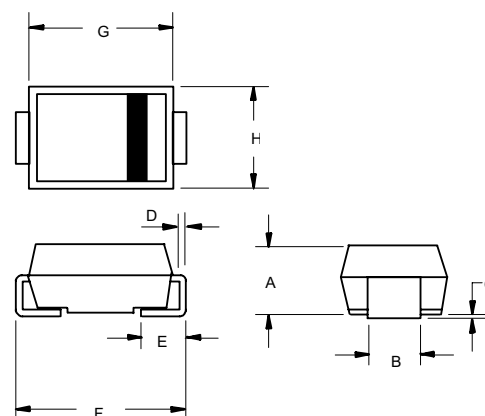
- Operating Junction Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SMLJ60S05	60S05	50V	35V	50V
SMLJ60S1	60S1	100V	70V	100V
SMLJ60S2	60S2	200V	140V	200V
SMLJ60S4	60S4	400V	280V	400V
SMLJ60S6	60S6	600V	420V	600V
SMLJ60S8	60S8	800V	560V	800V
SMLJ60S10	60S10	1000V	700V	1000V

SMLJ60S05 THRU SMLJ60S10

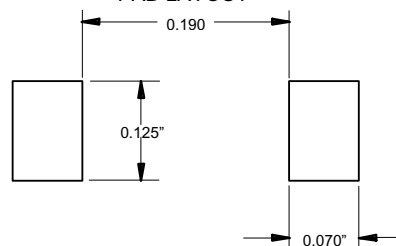
6 Amp Surface Mount Glass Passivated Rectifier 50 - 1000 Volts

SMC (DO-214AB)



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.079	.103	2.00	2.62	
B	.108	.128	2.75	3.25	
C	.002	.008	0.051	0.203	
D	.006	.012	0.152	0.305	
E	.030	.060	0.76	1.52	
F	.305	.320	7.75	8.13	
G	.260	.280	6.60	7.11	
H	.220	.245	5.59	6.22	

SUGGESTED SOLDER PAD LAYOUT



Electrical Characteristics @ 25°C Unless Otherwise Specified

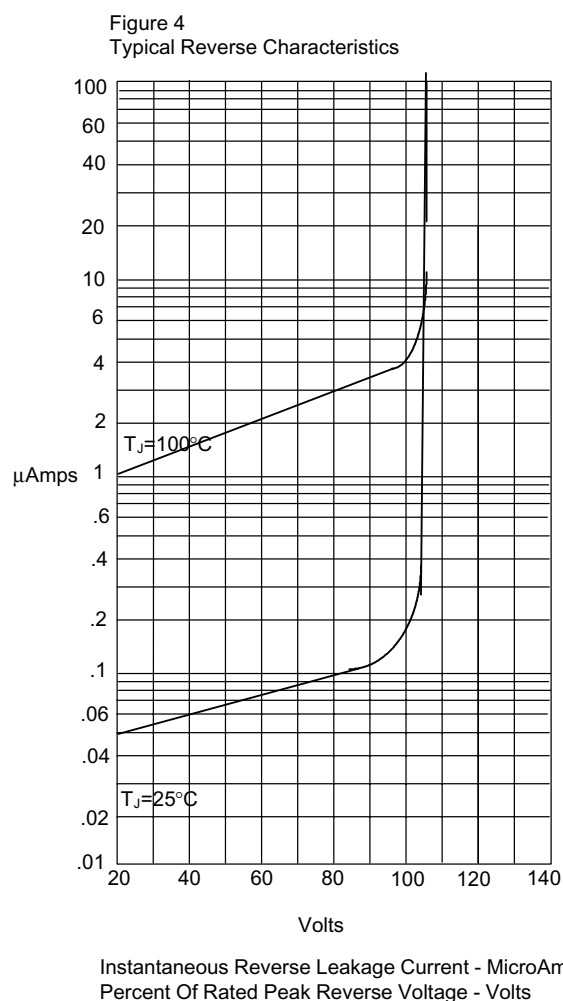
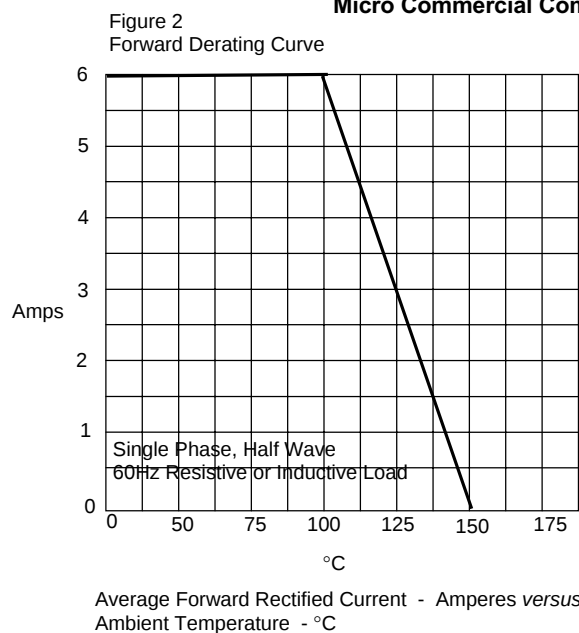
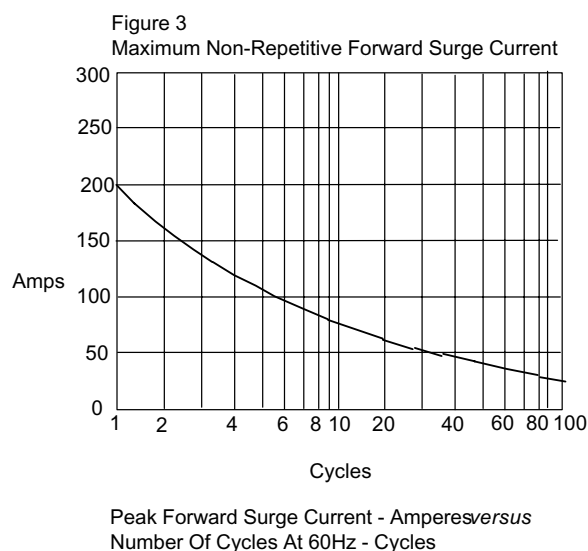
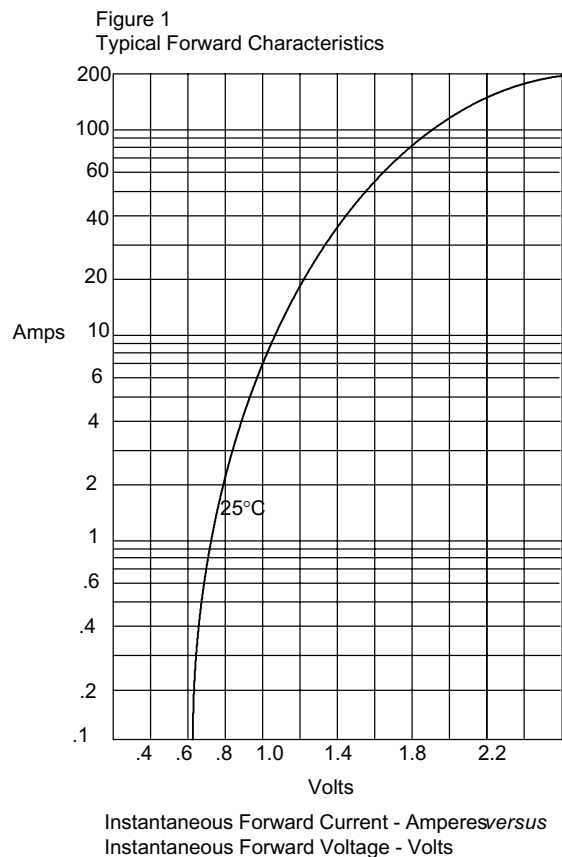
Average Forward Current	$I_{F(AV)}$	6.0A	$T_A = 100^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	200A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	1.0V	$I_{FM} = 6.0\text{A};$ $T_J = 25^\circ\text{C}^*$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5 μA 100 μA	$T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$
Typical Junction Capacitance	C_J	150pF	Measured at 1.0MHz, $V_R = 4.0\text{V}$

Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

*Pulse test: Pulse width 300 μsec , Duty cycle 1%

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SMLJ60S05 THRU SMLJ60S10





TM

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Ordering Information :

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

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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