

## SURFACE MOUNT GENERAL PURPOSE RECTIFIERS

REVERSE VOLTAGE - 50 to 1000 Volts  
FORWARD CURRENT - 1.0 Ampere

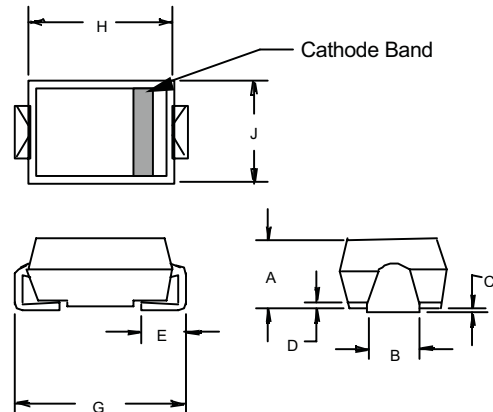
### FEATURES

- Plastic passivated Junction
- For surface mounted applications
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- Plastic material has UL flammability classification 94V-0

### MECHANICAL DATA

- Case : Molded plastic
- Polarity : Indicated by cathode band
- Weight : 0.002 ounces, 0.064 grams

### SMAE



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.081	.089	2.05	2.25	
B	.059	.075	1.50	1.90	
C	.002	.010	0.05	0.25	
D	--	.008	--	.20	
E	.030	.052	0.76	1.32	
G	.189	.209	4.80	5.30	
H	.159	.167	4.05	4.25	
J	.094	.102	2.40	2.60	

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.  
Single phase, half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	M1	M2	M3	M4	M5	M6	M7	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @TL =100°C	I(AV)	1.0							A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC METHOD)	IFSM	30							A
Maximum forward Voltage at 1.0A DC	VF	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage @TJ =25°C @TJ =125°C	IR	5.0 100							uA
Typical Junction Capacitance (Note1)	CJ	12							pF
Typical Thermal Resistance (Note 2)	RθJL	30							°C/W
Maximum Reverse Recovery Time (Note 3)	TRR	2.0							us
Operating Temperature Range	TJ	-55 to +150							°C
Storage Temperature Range	TSTG	-55 to +150							°C

NOTES : 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.  
2. Thermal Resistance Junction to Lead.  
3. Measured with :IF=0.5A, IR=1.0A, IRR=0.25A

## RATINGS AND CHARACTERISTIC CURVES

