

SURFACE MOUNT SILICON RECTIFIER

FEATURES

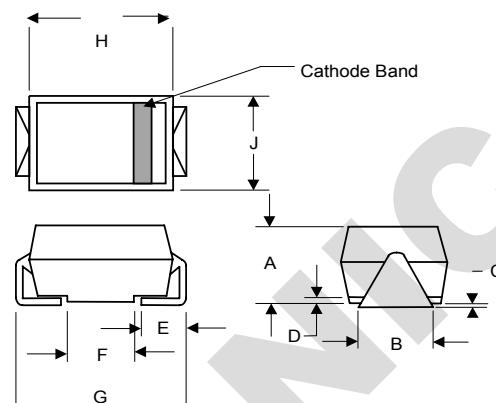
- Glass passivated chip junction.
- Ideal for surface mounted applications
- Low leakage
- High forward surge current capability.
- High temperature soldering guaranteed:
260°C/10 seconds at terminals

MECHANICAL DATA

- Case:** Transfer molded plastic
- Epoxy:** ULA4V-0 rate flame retardent.
- Polarity:** Color band denotes cathide end
- Lead:** Plated axial lead ,solderable per MIL-STD-202E
method 208C
- Weight:** 0.002 ounce, 0.057 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTER

- 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%.



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.078	0.098	1.98	2.50	
B	0.04	0.064	1.14	1.52	
C	0.002	0.008	0.05	0.20	
D	—	0.02	—	0.51	
E	0.035	0.06	0.89	1.52	
F	0.065	0.096	1.65	2.44	
G	0.188	0.214	4.77	5.43	
H	0.150	0.170	3.81	4.31	
J	0.100	0.112	2.54	2.84	

		SYMBOLS	M1	M2	M3	M4	M5	M6	M7	UNITS
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T _A =75°C		I _(AV)	1.0							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		I _{FSM}	30							Amps
Maximum Instantaneous Forward Voltage at Drep 1.0A		V _F	1.1							Volts
Maximum DC Reverse Current at rated DC blocking voltage	T _A =25°C	I _R	5.0							μA
	T _A =125°C		50							
Typical Junction Capacitance(NOTE1)		C _J	15							pF
Typical Thermal Resistance(NOTE2)		R _{θJA}	75							°C/W
		R _{θJC}	20							°C/W
Operating and Storage Temperature Range		T _J , T _{STG}	- 65 to +175							°C

NOTES:

- Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.
- 6.0X6.0mm² copper pads to each terminal.

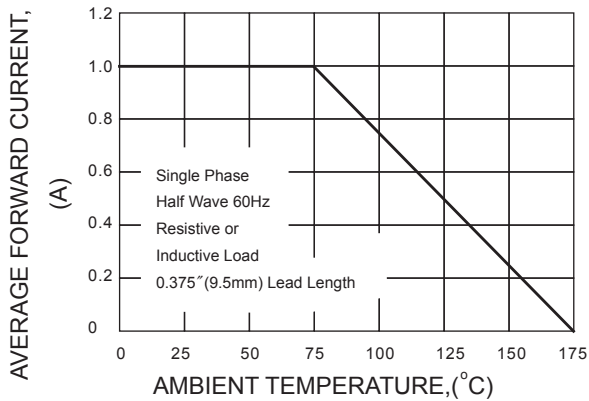
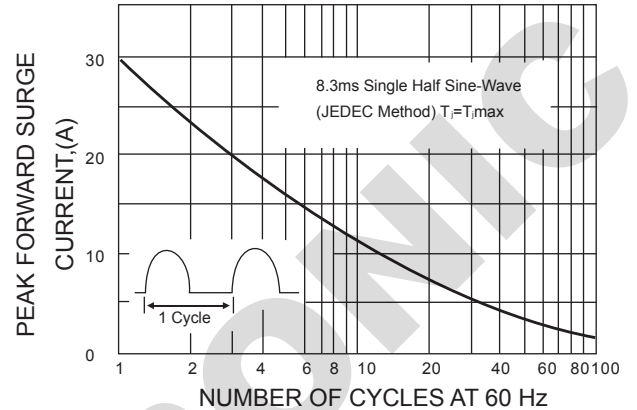
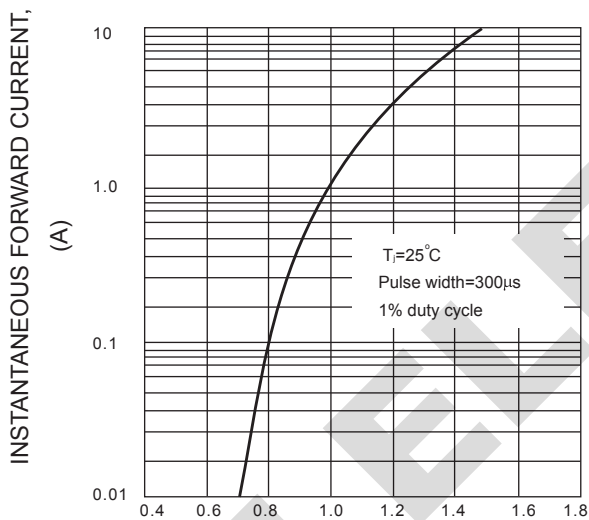
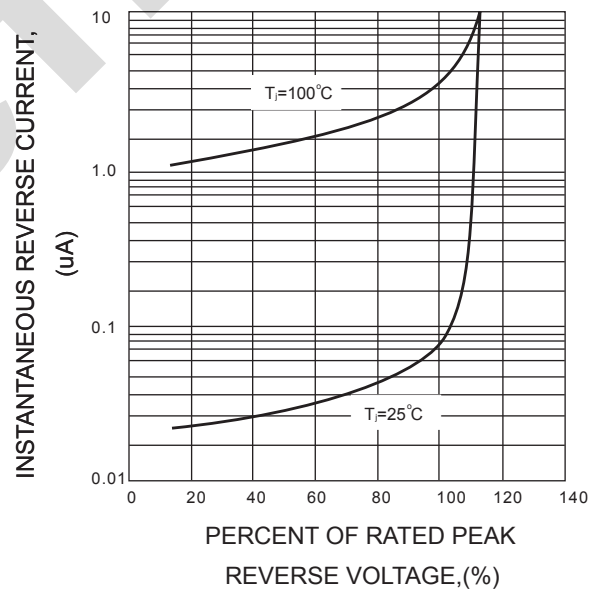
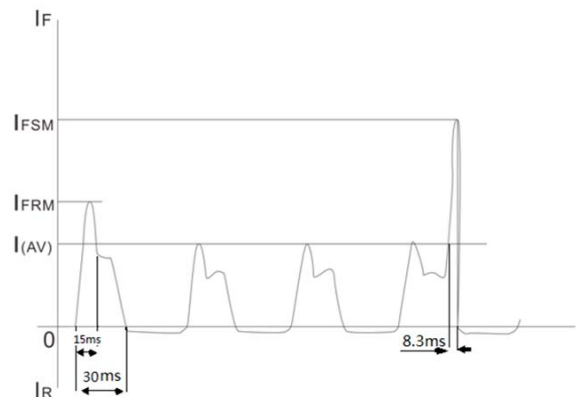
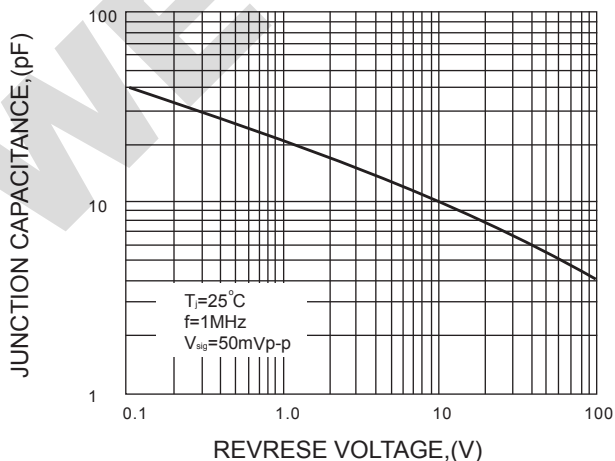
FIG.1-TYPICAL FORWARD CURRENT
DERATING CURVEFIG.2-MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENTFIG.3-TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICSFIG.4-TYPICAL REVERSE
CHARACTERISTICS

FIG.5-TYPICAL JUNCTION CAPACITANCE



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