New Jersey Semi-Conductor Products, Inc.

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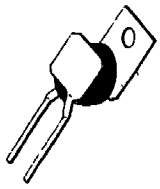
**MEDIUM-CURRENT
SILICON RECTIFIERS**
50-600 VOLTS
24 AMPERES

MR2400 thru MR2406



MAXIMUM RATINGS

Rating	Symbol	MR2400	MR2401	MR2402	MR2404	MR2406	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	50	100	200	400	600	Volts
Nonrepetitive Peak Reverse Voltage (half wave, single phase, 60 Hz peak)	V_{RSM}	60	120	240	480	720	Volts
Average Rectified Forward Current (Single phase, resistive load, 60 Hz, T_C = 150°C)	I_O	24					Amp
Nonrepetitive Peak Surge Current (surge applied @ rated load conditions, half wave, single phase, 60 Hz)	I_{FSM}	400 (for 1 cycle)					Amp
Operating and Storage Junction Temperature Range	T_J, T_{stg}	−65 to +175					°C

THERMAL CHARACTERISTICS

Characteristic	Symbol	Max	Unit
Thermal Resistance, Junction to Case	$R_{\theta JC}$	0.8	°C/W
Thermal Resistance, Junction to Air PC Board Mount, Perpendicular to Surface	$R_{\theta JA}$	55	°C/W

ELECTRICAL CHARACTERISTICS

Characteristics and Conditions	Symbol	Max	Unit
Maximum Instantaneous Forward Voltage (i_F = 75.4 Amp, T_C = 25°C)	v_F	1.18	Volts
Maximum Reverse Current (rated dc voltage) T_C = 25°C T_C = 100°C	I_R	 100 500	μA

MECHANICAL CHARACTERISTICS

CASE: Plastic encapsulated, metal tabs.

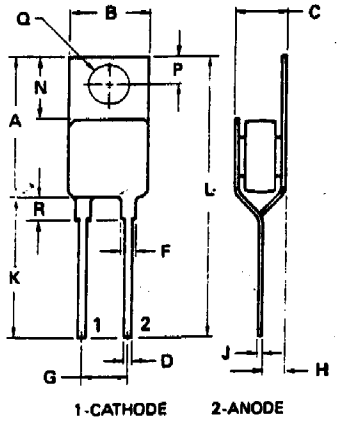
FINISH: All external surfaces are corrosion resistant and the leads are readily solderable.

POLARITY: Cathode to tab with hole; Reverse polarity available by adding "R" Suffix, MR2402R.

MOUNTING TORQUE: 8 in-lb max.

MAXIMUM TEMPERATURE FOR SOLDERING PURPOSES: 350°C, 3/8" from case for 10 seconds.

WEIGHT: 3.6 Grams (Approximately).



DIM	MILLIMETERS MIN	MILLIMETERS MAX	INCHES MIN	INCHES MAX
A	14.22	15.88	0.560	0.625
B	9.65	10.67	0.380	0.420
C	7.21	7.87	0.284	0.310
D	0.64	1.14	0.025	0.045
F	1.52	2.29	0.060	0.090
G	4.32	5.33	0.170	0.210
H	2.03	2.92	0.080	0.115
J	0.58	0.74	0.023	0.029
K	–	14.27	–	0.562
L	–	30.15	–	1.187
N	5.84	6.86	0.230	0.270
P	2.54	3.05	0.100	0.120
Q	3.53	3.73	0.139	0.147
R	–	5.08	–	0.200

Quality Semi-Conductors