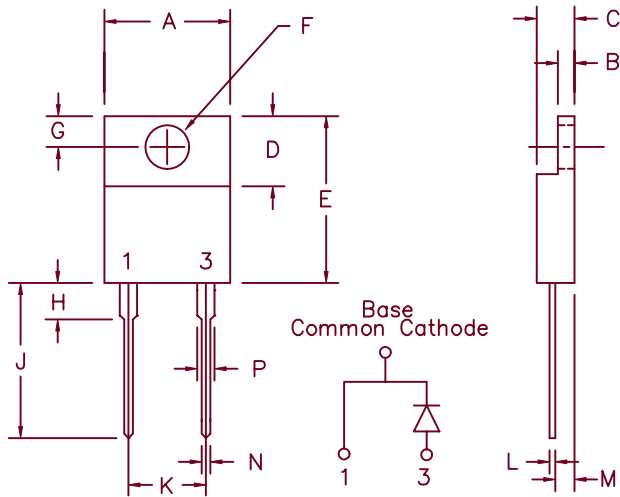


24 Amp Silicon Rectifiers

MD2401 — MD2412



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	.390	.415	9.91	10.54	
B	.045	.055	1.14	1.40	
C	.180	.190	4.57	4.83	
D	.245	.260	6.22	6.60	
E	.590	.605	14.99	15.37	
F	.139	.147	3.53	3.73	Dia.
G	.100	.120	2.54	3.05	
H	---	.250	---	6.35	
J	.540	.570	13.72	14.48	
K	.190	.210	4.83	5.33	
L	.021	.025	.533	.640	
M	.080	.115	2.03	2.92	
N	.028	.038	.710	.970	
P	.045	.055	1.14	1.40	

Similar to T0-220AC

Microsemi Catalog Number	Repetitive Peak Reverse Voltage	Transient Peak Reverse Voltage
MD2401	100V	100V
MD2402	200V	200V
MD2404	400V	400V
MD2406	600V	600V
MD2408	800V	800V
MD2410	1000V	1000V
MD2412	1200V	1200V

- Glass Passivated Die
- Excellent Reliability
- V_{RRM} 100 to 1200 Volts

Electrical Characteristics

Average Forward Current	$I_F(AV)$ 24 Amps	$T_C = 116^\circ C$, Square wave, $R_{\theta JC} = 1.8^\circ C/W$
Maximum Surge Current	I_{FSM} 150 Amps	8.3ms, half sine, $T_J = 175^\circ C$
Max. Peak Forward Voltage	V_{FM} 1.05 Volts	$I_{FM} = 24A$, $T_J = 175^\circ C^*$
Max. Peak Forward Voltage	V_{FM} 1.15 Volts	$I_{FM} = 24A$, $T_J = 25^\circ C^*$
Max. Peak Reverse Current	I_{RM} 5 mA	V_{RRM} , $T_J = 125^\circ C^*$
Max. Peak Reverse Current	I_{RM} 10 μA	V_{RRM} , $T_J = 25^\circ C$

*Pulse test: Pulse width 300 μsec . Duty cycle 2%

Thermal and Mechanical Characteristics

Storage temp range	TSTG	$-55^\circ C$ to $+175^\circ C$
Operating junction temp range	T_J	$-55^\circ C$ to $+175^\circ C$
Max thermal resistance	$R_{\theta JC}$	1.8 $^\circ C/W$
Mounting torque		10-15 inch pounds
Weight		.06 ounces (1.8 grams) typical

MD2401 — MD2412

Figure 1
Typical Forward Characteristics

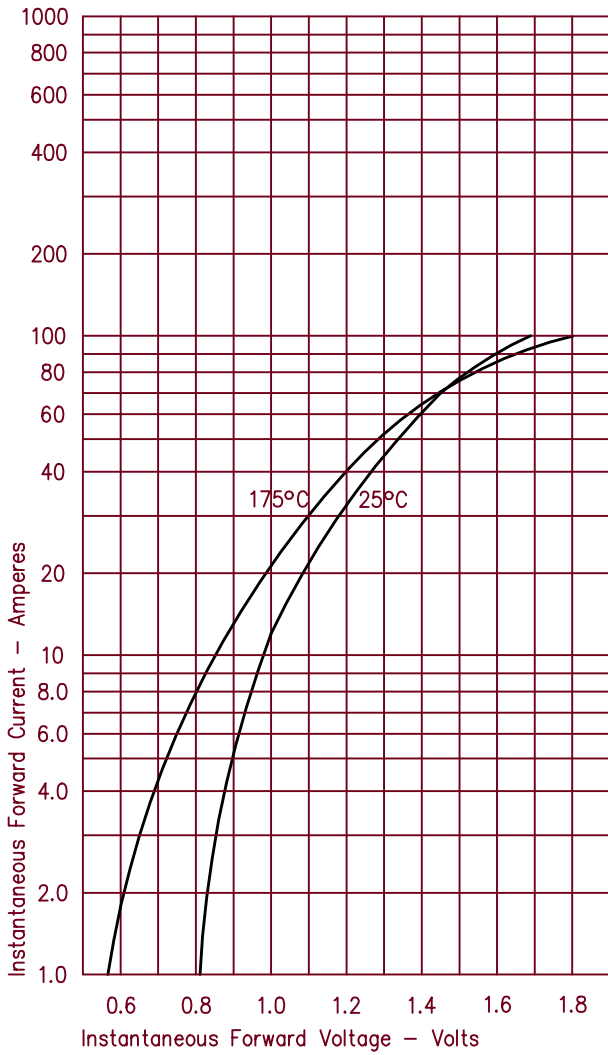


Figure 3
Forward Current Derating – Standard Polarity

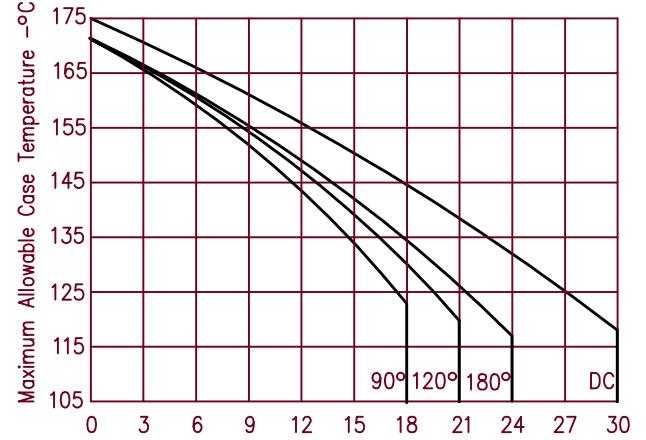


Figure 4
Maximum Forward Power Dissipation

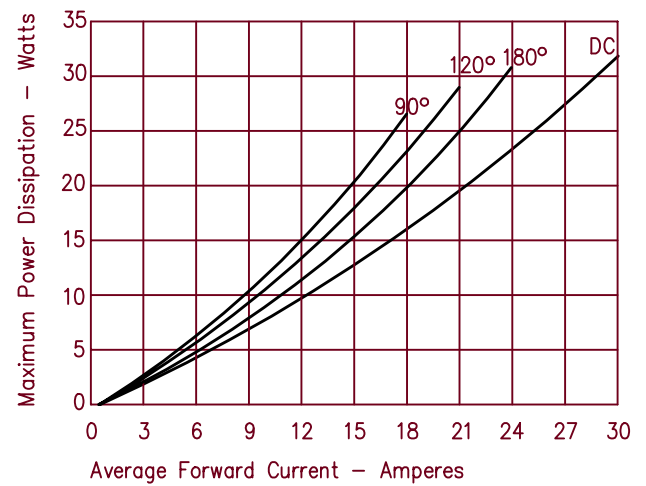
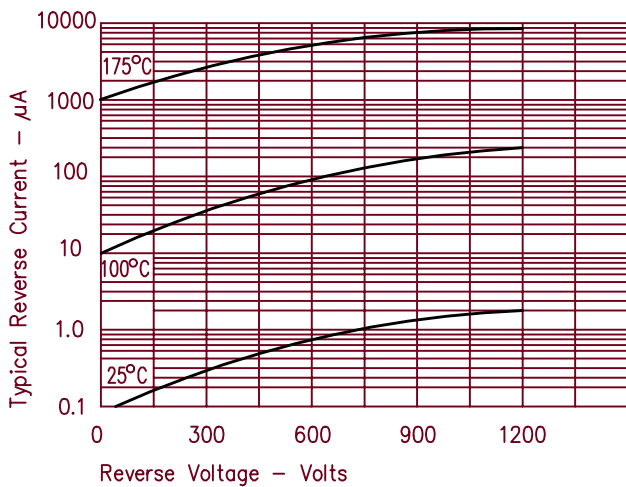


Figure 2
Typical Reverse Characteristics



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Datasheets for electronics components.