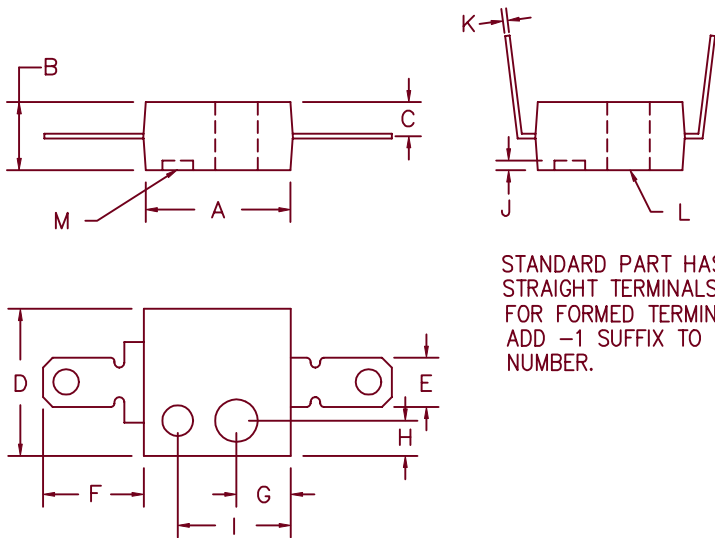


Quick Connect Rectifier KP248 — KP1048



STANDARD PART HAS STRAIGHT TERMINALS. FOR FORMED TERMINALS, ADD -1 SUFFIX TO PART NUMBER.

Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	.615	.635	15.62	16.13	
B	.275	.285	6.99	7.24	
C	.137	.143	3.48	3.63	
D	.615	.635	15.62	16.13	
E	.245	.255	6.22	6.48	
F	.490	.510	12.45	12.95	
G	.245	.255	6.22	6.48	
H	.157	.167	3.99	4.24	
I	.455	.465	11.56	11.81	
J	.057	.067	1.45	1.70	
K	.028	.032	0.71	0.81	
L		.169		4.29	Dia.
M		.125		3.18	Dia.

Microsemi Catalog
Number

KP248
KP448
KP648
KP848
KP1048

Peak
Reverse Voltage

200V
400V
600V
800V
1000V

- Rugged Construction
- Glass Passivated Die
- Convenient Mounting
- Quick Connect 1/4" Tabs
- RRM to 1000V

Electrical Characteristics

Average Forward Current
Average Forward Current
Maximum Surge Current
Max. I^2t For Fusing
Max. Peak Forward Voltage
Max. Peak Reverse Current

$I_F(AV)$ 5 Amps
 $I_F(AV)$ 8 Amps
 I_{FSM} 225 Amps
 I^2t 210 A²s
 V_{FM} 1.0 Volts
 I_{RM} 5 μ A

$T_A = 50^\circ\text{C}$, Natural Convection
 $T_A = 50^\circ\text{C}$, 200 LFM Forced Air Convection
8.3ms, half sine
 $I_{FM} = 6.0\text{A}$, $T_J = 25^\circ\text{C}^*$
 V_{RRM} , $T_J = 25^\circ\text{C}$

*Pulse test: Pulse width 300 μ sec Duty cycle 2%

Thermal and Mechanical Characteristics

Storage temp range
Operating junction temp range
Weight

T_{STG}
 T_J

-55°C to 175°C
 -55°C to 175°C
.15 ounces (4.8 grams) typical



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3-5-01 Rev. IR

KP248 — KP1048

Figure 1
Typical Forward Characteristics

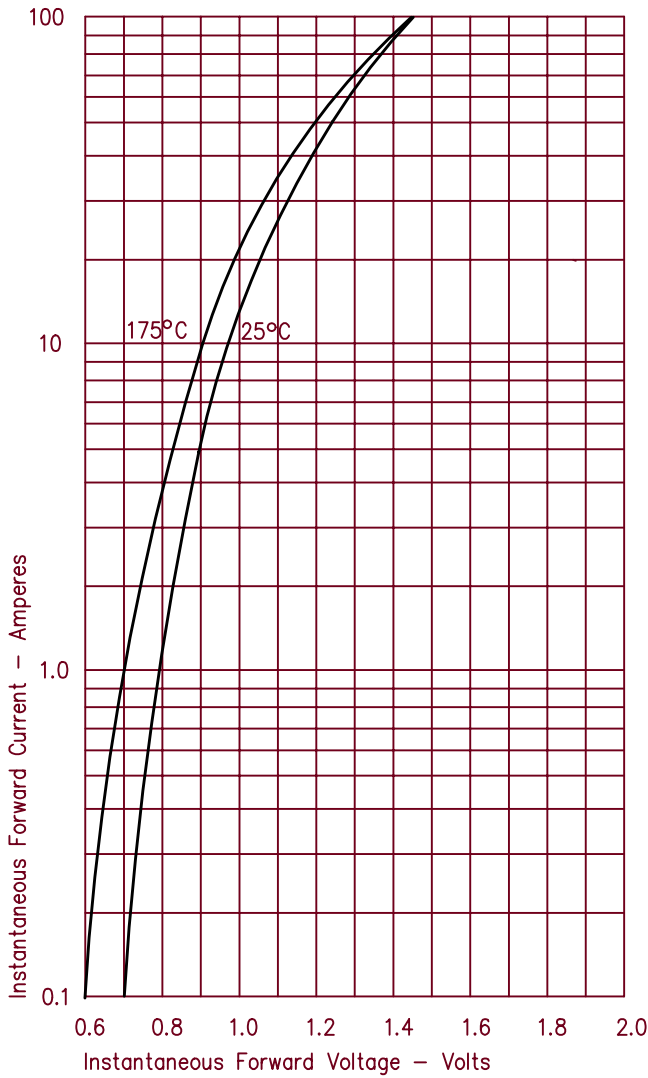


Figure 3
Forward Current Derating

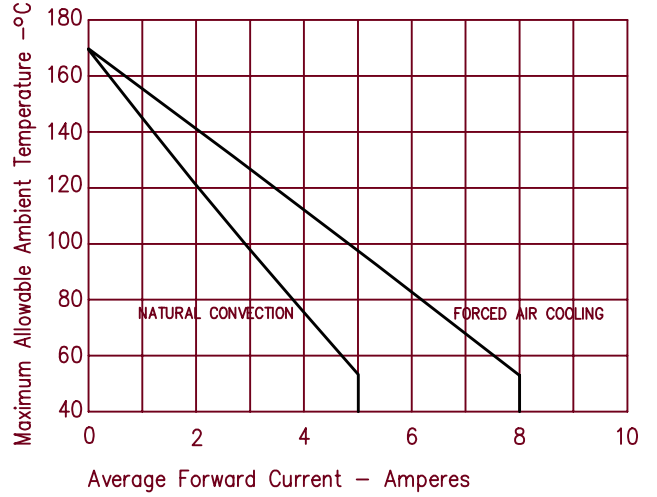


Figure 2
Typical Reverse Characteristics

