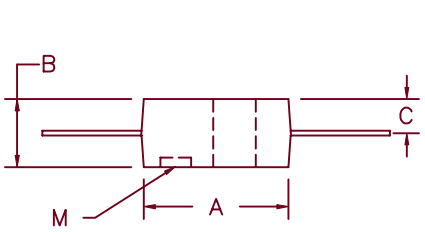
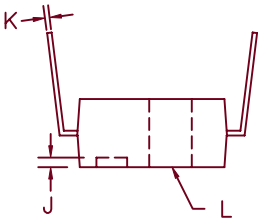
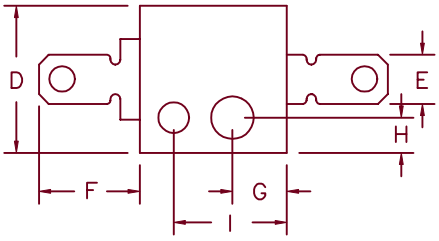
Quick Connect Rectifier

KP248 – KP1048





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



Dim.	Inches		Millimeter		
	Minimum	Maximum	Minimum	Maximum	Notes
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	Peak Reverse Voltage
KP248	200V
KP448	400V
KP648	600V
KP848	800V
KP1048	1000V

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

Electrical Characteristics

Average Forward Current	$I_{F(AV)}$ 5 Amps	T_A = 50°C, Natural Convection
Average Forward Current	$I_{F(AV)}$ 8 Amps	T_A = 50°C, 200 LFM Forced Air Convection
Maximum Surge Current	I_{FSM} 225 Amps	8.3ms, half sine
Max. I^2t For Fusing	I^2t 210 A^2s	
Max. Peak Forward Voltage	V_{FM} 1.0 Volts	I_{FM} = 6.0A, T_J = 25°C*
Max. Peak Reverse Current	I_{RM} 5 µA	V_{RRM}, T_J = 25°C

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

Thermal and Mechanical Characteristics

Storage temp range	T_{STG}	–55°C to 175°C
Operating junction temp range	T_J	–55°C to 175°C
Weight		.15 ounces (4.8 grams) typical

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KP248 – KP1048

Figure 1
Typical Forward Characteristics

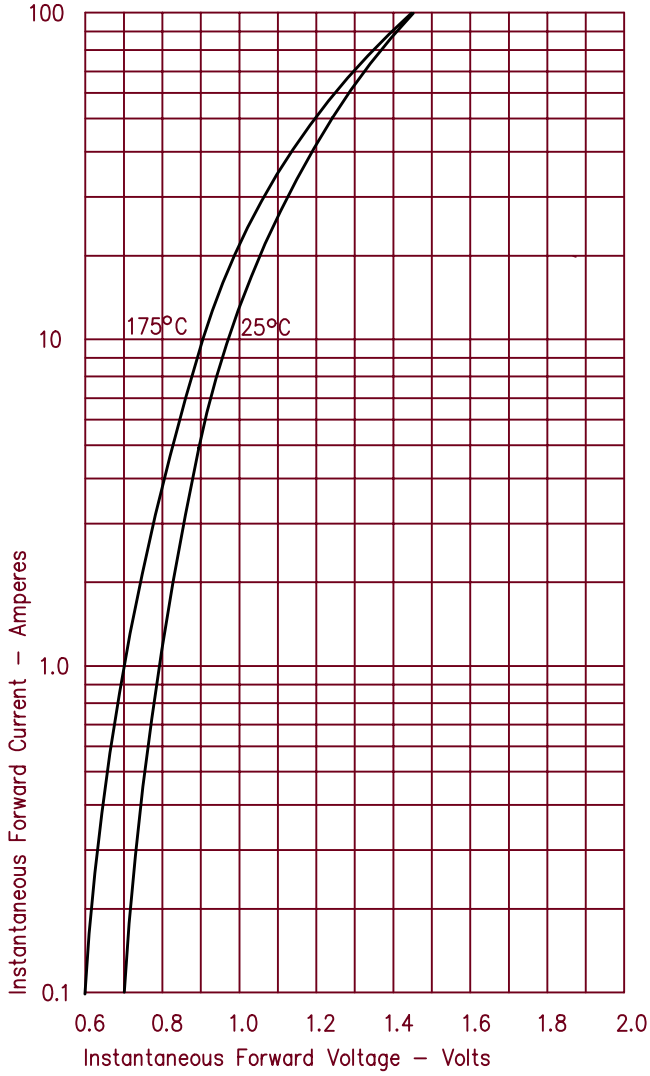

Figure 2
Typical Reverse Characteristics

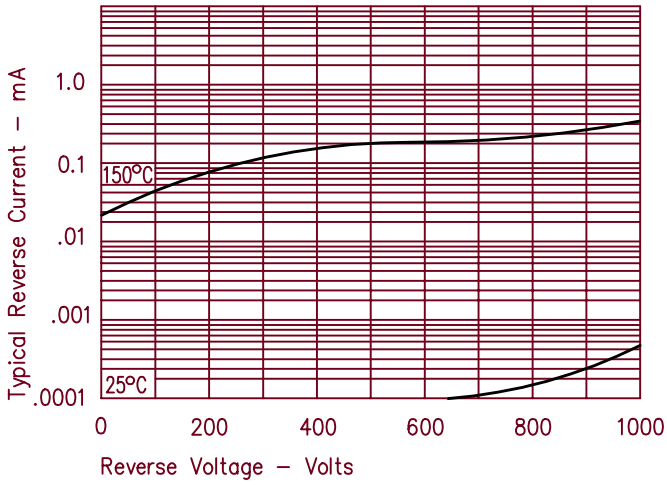

Figure 3
Forward Current Derating