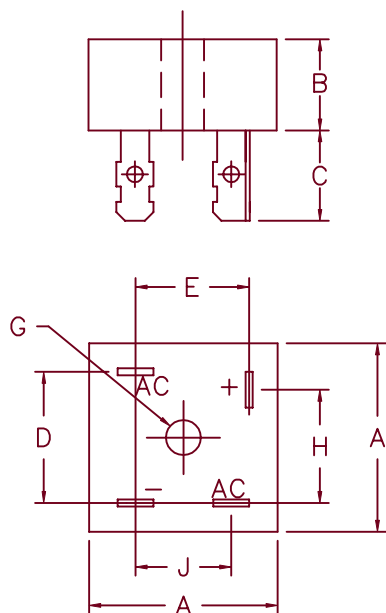


30 Amp Avalanche Bridges

KBPC3027 — KBPC3067



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	---	1.140	---	29.00	
B	---	.452	1.14	11.50	
C	.425	.490	10.80	12.45	
D	.693	.732	17.54	18.60	
E	.620	.677	15.75	17.20	
G	.188	---	4.77	---	Dia.
H	.620	.673	15.75	17.10	
J	.525	.582	13.34	14.80	

PLASTIC SHELL, METAL BASE

Microsemi Catalog Number	Industry Part Number	Repetitive Peak Reverse Voltage	Avalanche Voltage Range
KBPC3027	VK227	200V	250V-700V
KBPC3047	VK247	400V	450V-900V
KBPC3067	VK267	600V	660V-1100V

- 2000V isolation – Terminals to Base
- Low Forward Voltage Drop
- Copper Mounting Pad for Low Thermal Resistance
- 30A DC at 80°C Case Temp.
- Glass Passivated Die

Electrical Characteristics

Maximum DC output current	I_o 30 Amps	$T_C = 80^\circ\text{C}$
Maximum Surge Current per diode	I_{FSM} 250 Amps	8.3ms, half sine, $T_J = 175^\circ\text{C}$
Max I^2t for fusing	I_{FSM} 260 A ² S	
Max peak forward voltage per diode	V_{FM} 1.2V @ 30 Amps	$T_J = 25^\circ\text{C}^*$
Max peak reverse current per diode	I_{RM} 10 μA	$V_{RRM}, T_J = 25^\circ\text{C}$
Minimum isolation voltage	V_{ISOL} 2000VDC	any terminal to base

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

Thermal and Thermal Characteristics

Storage temperature range	T_{STG}	-55°C to 175°C
Operating junction temp range	T_J	-55°C to 150°C
Maximum thermal resistance	$R_{\theta JC}$	1.0°C/W

3-25-02 Rev. IR

KBPC3027 – KBPC3067

Figure 1
Typical Forward Characteristics – Per Leg

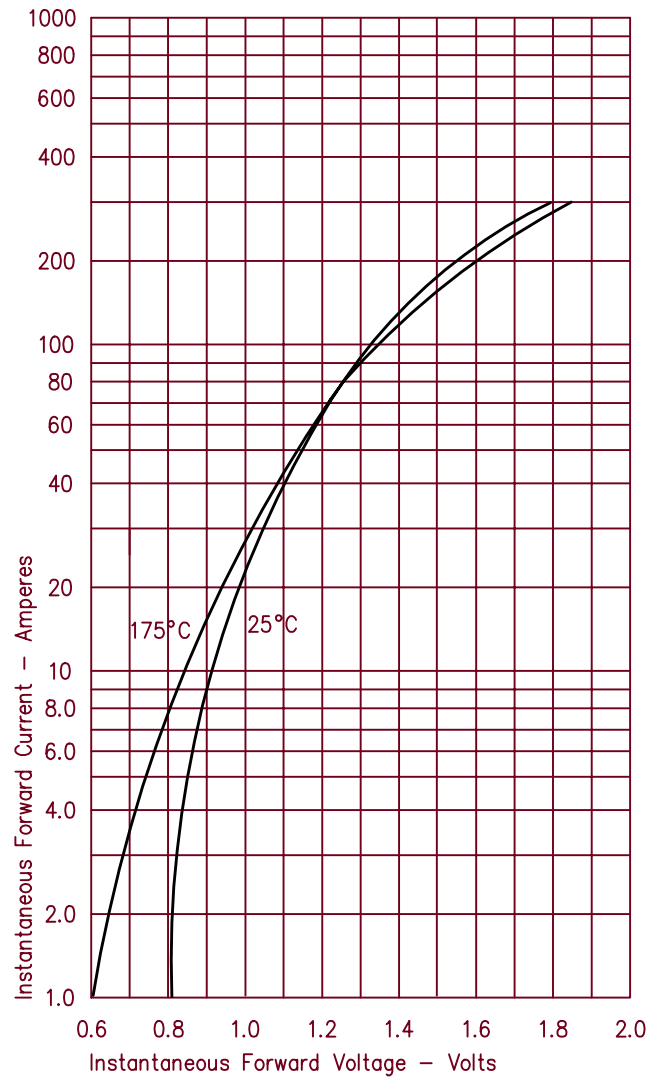


Figure 2
DC Forward Current VS Case Temperature

