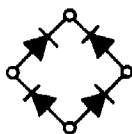


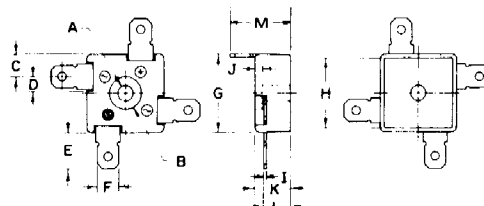
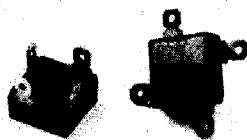
VK048 – VK1048



EPOXY BRIDGE RECTIFIERS

15A and 30A Single Phase, Full Wave

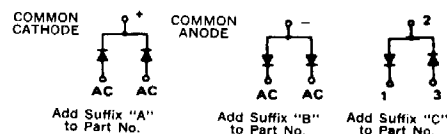
- 50V, 100V, 200V, 400V, 600V, 800V and 1000V (V_{RRM})
- Fast recovery series with 200 nanosec. maximum reverse recovery (t_{rr}).
- 2200V min. circuit-to-case insulation strength.



ELECTRICAL CHARACTERISTICS @ $T_A = 25^\circ\text{C}$ (UNLESS OTHERWISE SPECIFIED)

Vare Part Number	Avalanche Voltage (V_{AV})		Max. Inst. Fwd. Voltage Drop @ I_o (V_{fD})	Max. Rev. Cur. @ Rated V_{RRM} & $T_J = 40^{\circ}\text{C}$ (I_{RS})	Max. Rev. Cur. @ Rated V_{RRM} & $T_J = 175^{\circ}\text{C}$ (I_{RS})	Max. Thermal Resist. Junction to Junction ($R_{\theta J-C}$)	Write For Data Sheet Number
	(Min. Volts)	(Max. Volts)	(Volts/Log)	($\mu\text{A}/\text{Log}$)	(mA/Log)	($^{\circ}\text{C}/\text{W}$)	
15 AMP CONTROLLED AVALANCHE							
VL247	250	700	1.4	5	0.5	1.5	
VL447	450	900	1.4	5	0.5	1.5	
VL647	650	1100	1.4	5	0.5	1.5	
VL847	850	1300	1.4	5	0.5	1.5	
15 AMP NON-CONTROLLED AVALANCHE							
VL048	NA		1.4	5	0.5	1.5	
VL148			1.4	5	0.5	1.5	
VL248			1.4	5	0.5	1.5	
VL448			1.4	5	0.5	1.5	
VL648			1.4	5	0.5	1.5	
VL848			1.4	5	0.5	1.5	
VL1048			1.4	5	0.5	1.5	
30 AMP CONTROLLED AVALANCHE							
VK247	250	700	1.4	10	1.0	1.0	
VK447	450	900	1.4	10	1.0	1.0	
VK647	650	1100	1.4	10	1.0	1.0	
VK847	850	1300	1.4	10	1.0	1.0	
30 AMP NON-CONTROLLED AVALANCHE							
VK048	NA		1.4	10	1.0	1.0	
VK148			1.4	10	1.0	1.0	
VK248			1.4	10	1.0	1.0	
VK448			1.4	10	1.0	1.0	
VK648			1.4	10	1.0	1.0	
VK848			1.4	10	1.0	1.0	
VK1048			1.4	10	1.0	1.0	

Also available in the following circuits:



MAXIMUM RATINGS @ $T_A = 25^\circ\text{C}$ (UNLESS OTHERWISE SPECIFIED)

Vare Part Number	Peak Rep. Reverse Voltage (V_{RRM})	RMS Reverse Voltage (V_{RRM})	Power Dissipation (100 μ s square wave) (P_{avg})	Peak Surge Current (1/2 Cycle @ 60 Hz Non-Rep) (I_{FSM})	Peak Surge Current (1 μ s @ 60 Hz & 100°C) (I_{FSM})	DC Forward Current @ $T_J = 60^\circ\text{C}$ (I_o)	Junction Oper. & Stg. Temp. Range (T_J, T_{Stg})
	(Volts)	(Volts)	(Watts)	(Amps)	(Amps)	(Amps)	($^\circ\text{C}$)
15 AMP CONTROLLED AVALANCHE							
VL247	200	140	600	100	30	15	-50 to +175
VL447	400	280	600	100	30	15	-50 to +175
VL647	600	420	600	100	30	15	-50 to +175
VL847	800	560	600	100	30	15	-50 to +175
15 AMP NON-CONTROLLED AVALANCHE							
VL048	50	35	NA	100	30	15	-50 to +175
VL148	100	70		100	30	15	-50 to +175
VL248	200	140		100	30	15	-50 to +175
VL448	400	280		100	30	15	-50 to +175
VL648	600	420		100	30	15	-50 to +175
VL848	800	560		100	30	15	-50 to +175
VL1048	1000	700		100	30	15	-50 to +175
30 AMP CONTROLLED AVALANCHE							
VK247	200	140	1500	300	75	30	-50 to +175
VK447	400	280	1500	300	75	30	-50 to +175
VK647	600	420	1500	300	75	30	-50 to +175
VK847	800	560	1500	300	75	30	-50 to +175
30 AMP NON-CONTROLLED AVALANCHE							
VK048	50	35	NA	300	75	30	-50 to +175
VK148	100	70		300	75	30	-50 to +175
VK248	200	140		300	75	30	-50 to +175
VK448	400	280		300	75	30	-50 to +175
VK648	600	420		300	75	30	-50 to +175
VK848	800	560		300	75	30	-50 to +175
VK1048	1000	700		300	75	30	-50 to +175

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