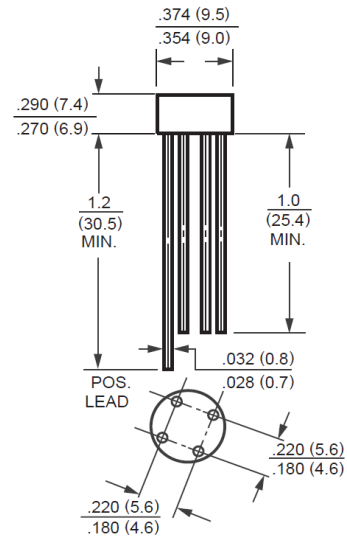




**FEATURES**

- \* High reverse voltage to 1000V
- \* Surge overload ratings to 50 amperes peak
- \* Good for printed circuit board assembly
- \* Mounting position: Any
- \* Weight: 1.37 grams
- \* Silver-plated copper leads



**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified.  
 Single phase, half wave, 60 Hz, resistive or inductive load.  
 For capacitive load, derate current by 20%.

**MAXIMUM RATINGS** (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	VE05	VE18	VE28	VE48	VE68	VE88	VE1008	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Output Current at TA = 50°C	Io	1.5							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	50							Amps
Typical Thermal Resistance	RθJA	40							°C/W
	RθJC	22							
Operating Temperature Range	TJ	-55 to + 150							°C
Storage Temperature Range	TSTG	-55 to + 150							°C

Dimensions in inches and (millimeters)

**ELECTRICAL CHARACTERISTICS** (At TA = 25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	VE05	VE18	VE28	VE48	VE68	VE88	VE1008	UNITS	
Maximum Forward Voltage Drop per element at 1.5A DC	VF	1.0							Volts	
Maximum Reverse Current at Rated	IR	@ TA = 25°C							5.0	uAmps
		@ TA = 125°C							0.5	mAmps

FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

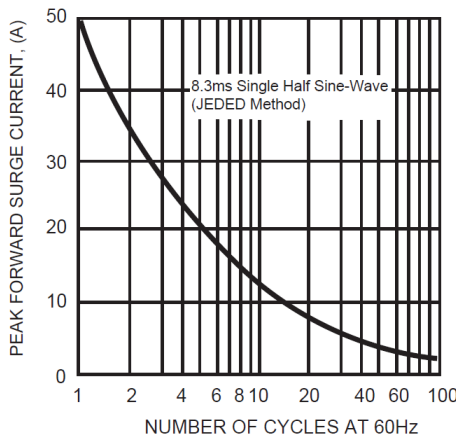


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

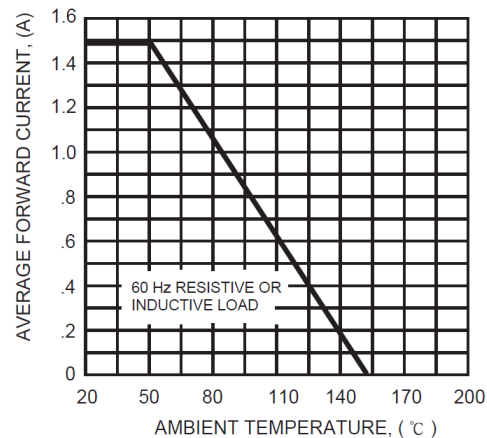


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

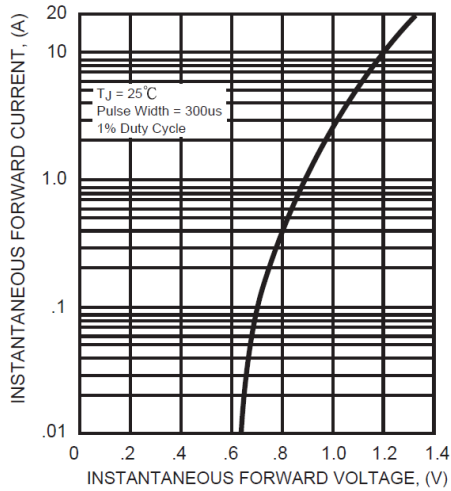


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

