

TECHNICAL SPECIFICATIONS OF SINGLE-PHASE MINI SURFACE MOUNT BRIDGE RECTIFIER

CURRENT - 0.5 Ampere

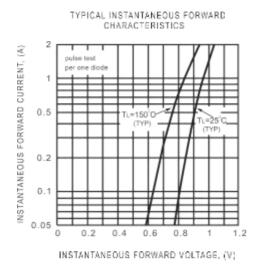
FEATURES * Surge overload rating - 30 Amperes peak * Ideal for printed circuit board * Reliable low cost construction * Glass passivated junction DB-1MS .275(7.0)MAX MECHANICAL DATA .067(1.7) .165(4.2) * Case: Molded plastic .057(1.3) 150(3.8) .051(1.3)____ * Epoxy: UL 94V-0 rate flame retardant .035(0.9) * Terminals: MIL-STD-202E, Method 208 guaranteed * Polarity: Symbols molded or marked on body <u>.014(.3</u>5) * Mounting position: Any .043(1.1) .031(0.8) .006(.15) * Weight: 0.22 gram .027(0.7) .019(0.5) 106(2.7) :09(2.3) .067(1.7) .057(1.3) .193(4.9) 177(4.5) .106(2.7) .09(2.3) MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS .008(0.2) 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%. Dimensions in inches and (millimeters)

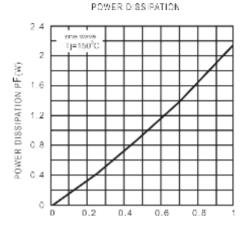
		SYMBOL	B05S	B1S	B2S	B4S	B6S	B8S	B10S	UNITS
Maximum Recurrent Peak Reverse Voltage		Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input Voltage		VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Output Current at TA = 40°C		lo	0.5							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	30						Amps	
Maximum DC Forward Voltage Drop per Bridge Element at 0.5A DC		VF	1.1						Volts	
Maximum Reverse Current at rated	@TA = 25°C	IR	5.0							uAmps
DC Blocking Voltage per element	@TA = 125°C	IX	500							
I ² t Rating for Fusing (t<8.3ms)		l ² t	10							A ² Sec
Typical Junction Capacitance (Note1)		CJ	25							pF
Typical Thermal Resistance (Note 2)		RθJA	85							0C/W
Operating and Storage Temperature Range		TJ,TSTG	-55 to + 150							٥C

NOTES : 1.Measured at 1 MHz and applied reverse voltage of 4.0 volts

VOLTAGE RANGE - 50 to 1000 Volts

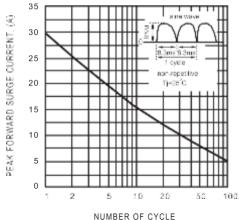
2. Thermal Resistance from Junction to Ambient and from junction to lead mounted on P.C.B. with 0.5 x 0.5" (13x13mm) copper pads.





AVERAGE RECTIFIED FORWARD CURRENT. IO (A)

SUBGE FORWARD CURRENT CAPABILITY



TYPICAL FORWARD CURRENT DERATING CURVE

