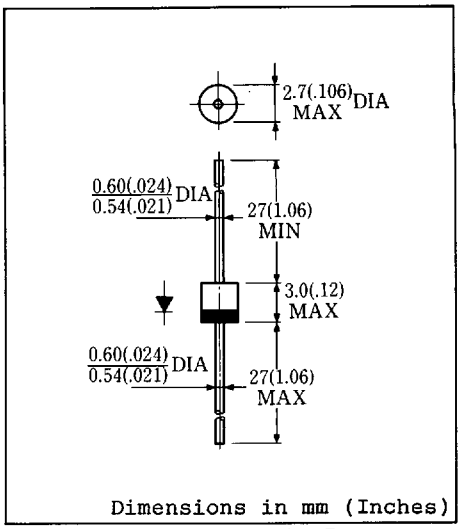
SCHOTTKY BARRIER DIODE 1.1A/20V 11EQS02L

FEATURES

- Miniature Size
- Extremely Low Forward Voltage Drop
- Low Power Loss, High Efficiency
- High Surge Capability
- 20 Volts thru 100 Volts Types Available
- 26mm and 52mm Inside Tape Spacing Package Available



Dimensions in mm (Inches)

Approx. Net Weight : 0.17 Grams

MAXIMUM RATINGS

Voltage Rating	TYPE / Symbol	◆11EQS02L	---	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	20	---	V
Non-Repetitive Peak Reverse Voltage	V_{RSM}	25	---	V

Electrical Rating	Symbol	Condition			Rating	Unit
Average Rectified Output Current (resistive load)	I_O	P.C. Board moutned *	180° rectangular wave conduction	T_a = 57°C	1.1	A
			180° sinusoidal wave conduction	T_a = 64°C	1.0	
		Without Fin, PCB.		T_a = 48°C	1.0	
RMS Forward Current	$I_{F(RMS)}$				1.57	A
Peak One-cycle Forward Surge Current	I_{FSM}	50Hz half sine wave, non-repetitive			40	A
Operating Junction Temperature Range	T_{jw}				-40 to 125	°C
Storage Temperature Range	T_{stg}				-40 to 125	°C

ELECTRICAL & THERMAL CHARACTERISTICS

Characteristics	Symbol	Test Condition	Max.	Unit
Peak Forward Voltage	V_{FM}	I_{FM} = 1A T_j = 25°C	0.45	V
Peak Reverse Current	I_{RM}	V_{RM} = V_{RRM} T_j = 25°C	1.0	mA
Thermal Resistance, junction to ambient	$R_{th(j-a)}$	P.C. Baord mounted *	110	°C/W
		Without Fin or P.C. Board	140	

* P.C. Board Print Land = 5x5mm

◆ For spare parts only

FIG.1-FORWARD VOLTAGE VS. FORWARD CURRENT

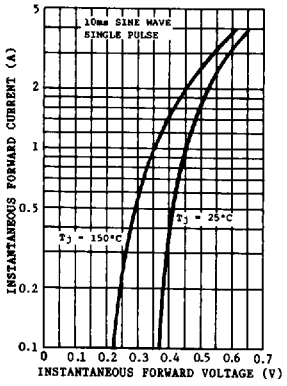


FIG.2-AVERAGE FORWARD POWER DISSIPATION

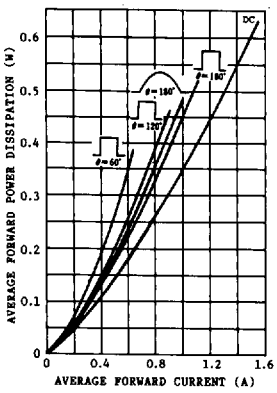


FIG.3-PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

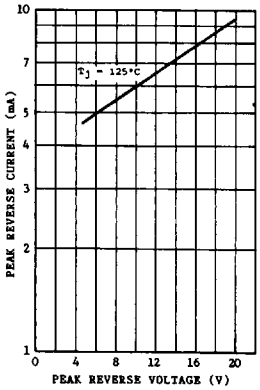


FIG.4-AVERAGE REVERSE POWER DISSIPATION

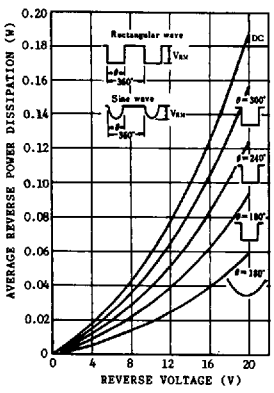


FIG.5-AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

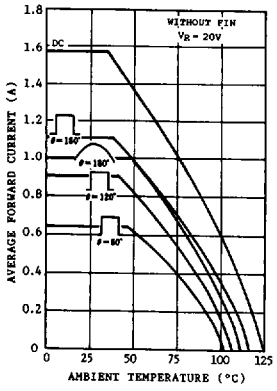


FIG.6-AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

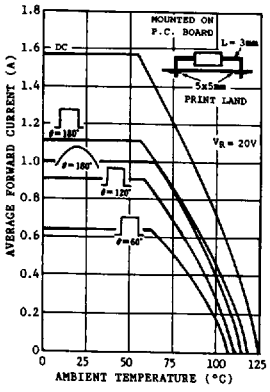


FIG.7-SURGE CURRENT RATINGS

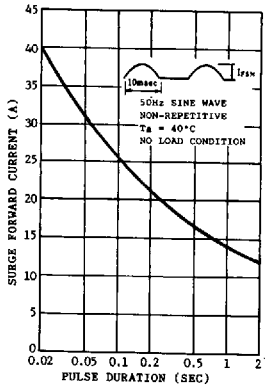
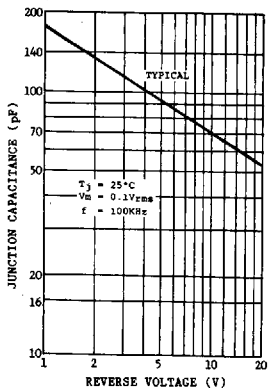


FIG.8-JUNCTION CAPACITANCE VS. REVERSE VOLTAGE



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