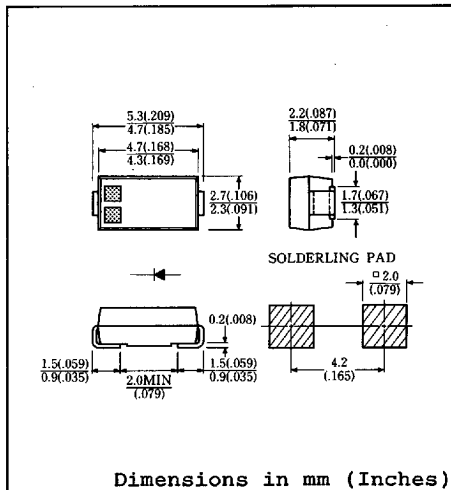


**FEATURES**

- Miniture Size, Surface Mount Device
- Extremely Low Forward Voltage Drop
- Low Power Loss, High Efficiency
- High Surge Capability
- 20 Volts thru 100 Volts Types Available
- Packaged in 12mm Tape and Reel
- Not Rolling During Assembly



Approx. Net Weight : 0.06 Grams

**MAXIMUM RATINGS**

Voltage Rating	TYPE Symbol	◆ EC15QS02L	---	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)	$I_O$	Ceramic substrate mounted *	180° rectangular wave conduction . $T_a = 32^\circ C$	1.4	A
			180° sinusoidal wave conduction. $T_a = 44^\circ C$	1.3	
		Glass-Epoxy substrate*	$T_a = 25^\circ C$	1.1	
RMS Forward Current	$I_{F(RMS)}$			2.04	A
Peak One-cycle Forward Surge Current	$I_{FSM}$	50Hz half sine wave, non-repetitive		50	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	$V_{FM}$	$I_{FM} = 1.7A$	$T_j = 25^\circ C$	0.45	V
Peak Reverse Current	$I_{RM}$	$V_{RM} = V_{RRM}$	$T_j = 25^\circ C$	2.0	mA
Thermal Resistance, junction to ambient	$R_{th(j-a)}$	Ceramic substrate mounted *		108	°C/W
		Glass-Epoxy substate mounted *		157	

\*Substrate Soldering Land = 2x2mm

◆ For spare parts only

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FIG.1-FORWARD VOLTAGE VS. FORWARD CURRENT

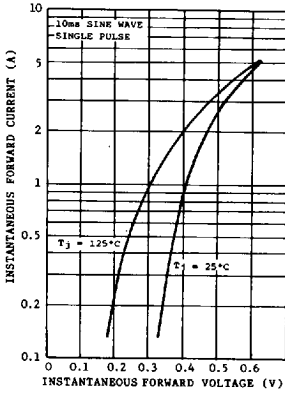


FIG.2-AVERAGE FORWARD POWER DISSIPATION

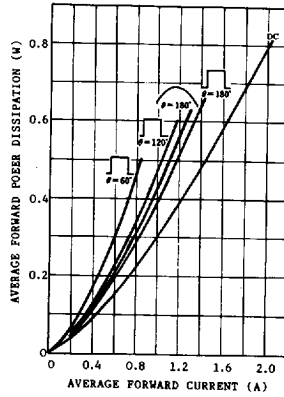


FIG.3-PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

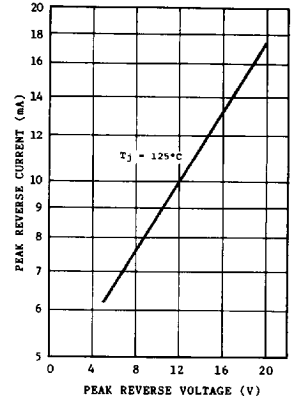


FIG.4-AVERAGE REVERSE POWER DISSIPATION

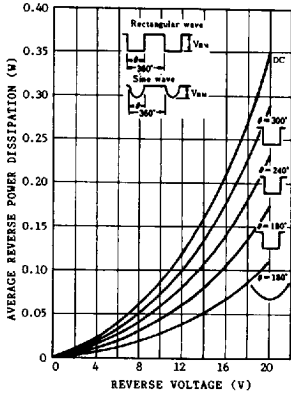


FIG.5-AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

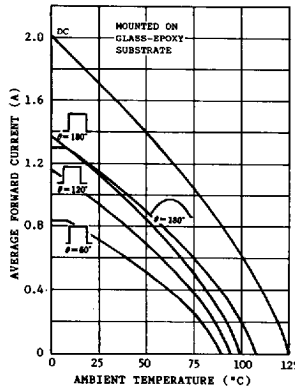


FIG.6-AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

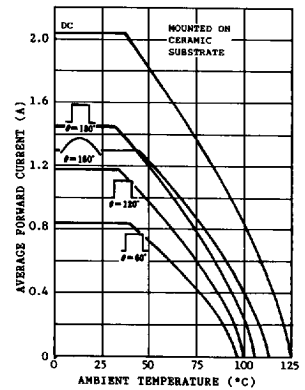


FIG.7-SURGE CURRENT RATINGS

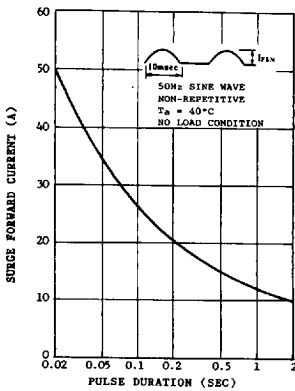
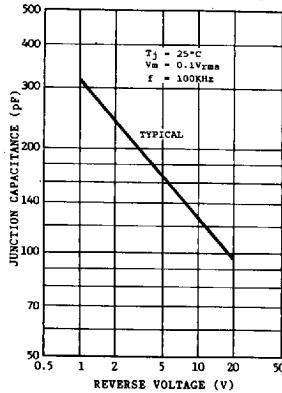


FIG.8-JUNCTION CAPACITANCE VS. REVERSE VOLTAGE



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