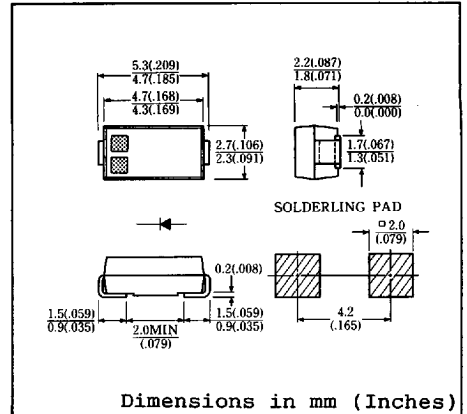


FEATURES

- Miniature Size, Surface Mount Device
- 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



Dimensions in mm (Inches)

Approx. Net Weight : 0.06 Grams

MAXIMUM RATINGS

Voltage Rating	TYPE		◆ EC15QS03	EC15QS04	Unit
	Symbol				
Repetitive Peak Reverse Voltage	V_{RRM}		30	40	v
Non-Repetitive Peak Reverse Voltage	V_{RSM}		35	45	v
Reverse Voltage, DC	$V_R(DC)$		21	28	v
Electrical Rating	Symbol	Condition		Rating	Unit
DC Output Current	I_F	Ceramic substrate mounted *	DC $T_a = 40^\circ C$	1.63	A
Average Rectified Output Current	I_O		180° rectangular wave conduction $T_a = 10^\circ C$	1.44	
			180° sinusoidal wave conduction $T_a = 27^\circ C$	1.30	
RMS Forward Current	$I_{F(RMS)}$			2.04	A
Peak One-cycle Forward Surge Current	I_{FSM}	50Hz half sine wave, non-repetitive		60	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}	$I_{FM} = 2.0A$ $T_j = 25^\circ C$	0.55	v
Peak Reverse Current	I_{RM}	$V_{RM} = V_{RRM}$ $T_j = 25^\circ C$	1.0	mA
		$V_{RM} = 40V$ $T_j = 125^\circ C$	12.0	
Reverse Recovery Time	t_{rr}	$I_F = 1.0A$ $-di/dt = 50A/\mu s$	30	ns
Thermal Resistance	$R_{th(j-a)}$	Junction to Ambient, Ceramic substrate mounted *	108	°C/W

*Ceramic Substrate Solder Land = 2 x 2 mm

◆ For spare parts only

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FIG.1-FORWARD VOLTAGE VS. FORWARD CURRENT

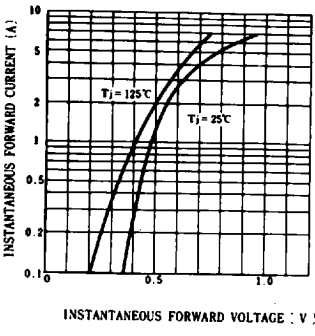


FIG.2-AVERAGE FORWARD POWER DISSIPATION

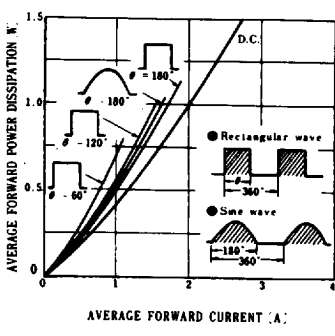


FIG.3-PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

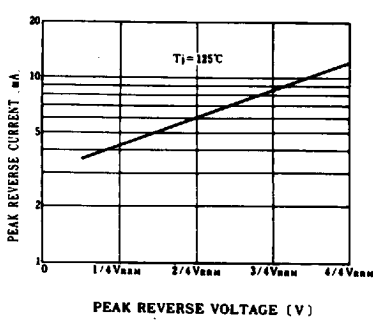


FIG.4-AVERAGE REVERSE POWER DISSIPATION

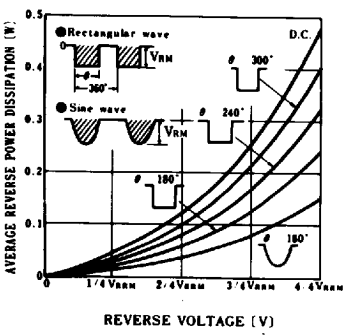


FIG.5-AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

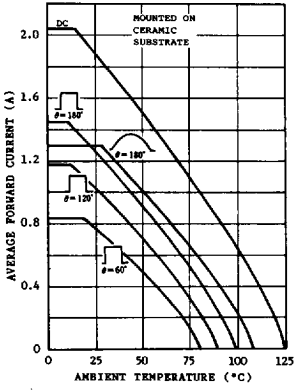


FIG.6-SURGE CURRENT RATINGS

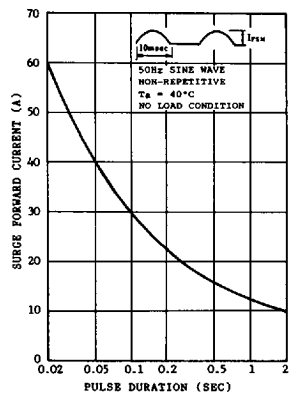
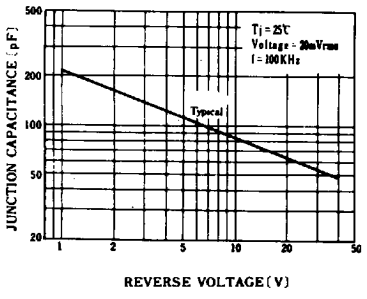


FIG.7-JUNCTION CAPACITANCE VS. REVERSE VOLTAGE



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