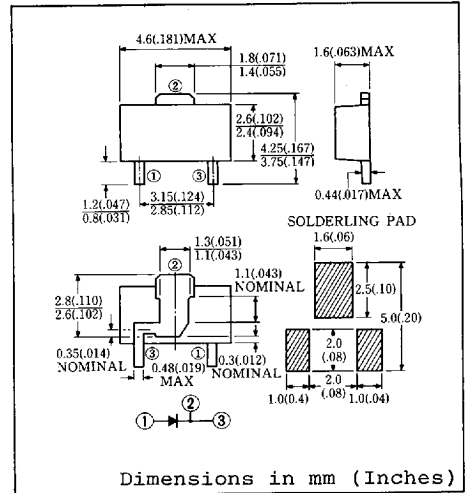


FEATURES

- Similar to TO-243AB (SOT-89) Case
- Surface Mount Device
- Low Forward Voltage Drop
- Low Power Loss, High Efficiency
- High Surge Capability
- 30 Volts through 100 Volts Types Available
- Packaged in 12mm Tape and Reel



Approx. Net Weight : 0.05 Grams

MAXIMUM RATINGS

Voltage Rating	TYPE	♦ E10QS09	♦ E10QS10	Unit	
	Symbol				
Repetitive Peak Reverse Voltage	$V_{RRM}$	90	100	V	
Non-Repetitive Peak Reverse Voltage	$V_{RSM}$	---	---	V	
Electrical Rating	Symbol	Condition		Rating	Unit
Average Rectified Output Current	$I_o$	180° rectangular wave conduction P.C.Board mounted* $T_a = 21^\circ C$		1.1	A
		180° sinusoidal wave conduction P.C.Board mounted* $T_a = 32^\circ C$		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		20	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	$V_{FM}$	$I_{FM} = 1.0A$	$T_j = 25^\circ C$	0.85	V
Peak Reverse Current	$I_{RM}$	$V_{RM} = V_{RRM}$	$T_j = 25^\circ C$	0.5	mA
Thermal Resistance	$R_{th(j-a)}$	Junction to Ambient, P.C.B. mounted*		110	°C/W

\*P.C.Board Print Land = 15x15mm

♦ For spare parts only

FIG.1-FORWARD VOLTAGE VS. FORWARD CURRENT

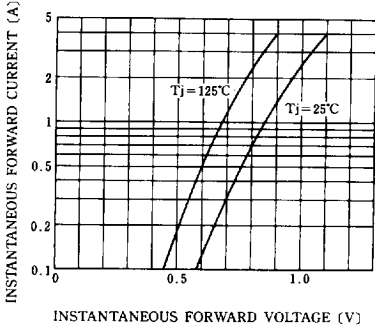


FIG.2-AVERAGE FORWARD POWER DISSIPATION

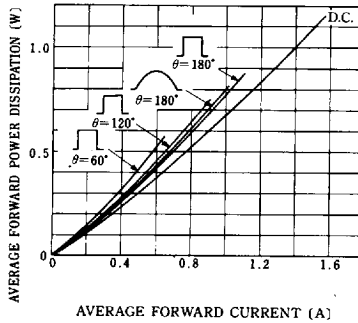


FIG.3-REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

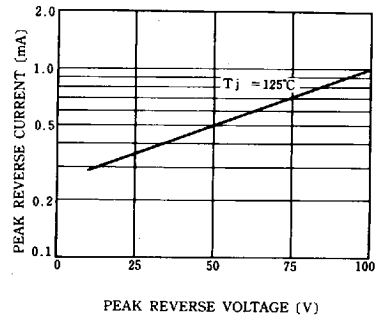


FIG.4-AVERAGE REVERSE POWER DISSIPATION

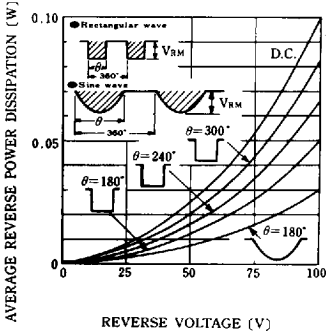


FIG.5-AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

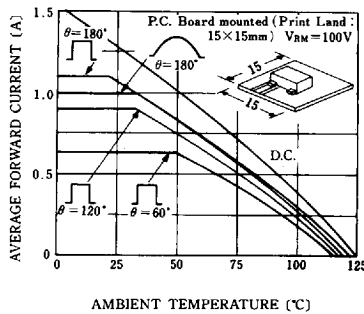


FIG.6-SURGE CURRENT RATINGS

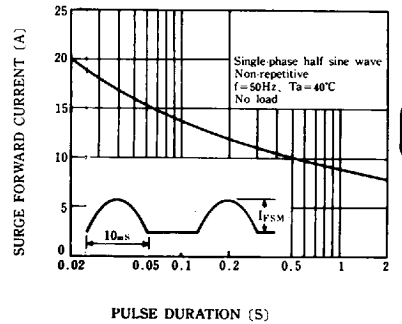


FIG.7-JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

