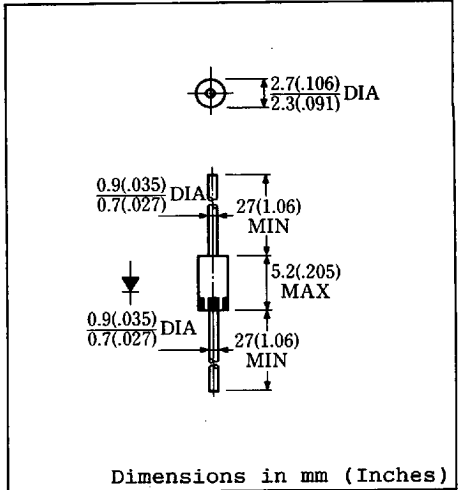


FEATURES

- Miniature Size
- Low Forward Voltage Drop
- Low Power Loss, High Efficiency
- High Surge Capability
- 30 Volts through 100 Volts Types Available
- 52mm Inside Tape Spacing Package Available



Dimensions in mm (Inches)
Approx. Net Weight : 0.33 Grams

MAXIMUM RATINGS

Voltage Rating	TYPE Symbol	◆ 11DQ03	11DQ04	Unit		
Repetitive Peak Reverse Voltage	V_{RRM}	30	40	v		
Non-Repetitive Peak Reverse Voltage	V_{RSM}	35	45	v		
Electrical Rating	Symbol	Condition		Rating	Unit	
Average Rectified Output Current (resistive load)	I_O	P.C. Board mounted*	180° rectangular wave conduction	$T_a=58^{\circ}C$	1.1	A
			180° sinusoidal wave conduction	$T_a=67^{\circ}C$	1.0	
		Without Fin, PCB.		$T_a=32$	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}	$I_{FM} = 1A$ $T_j = 25^{\circ}C$	0.55	v
Peak Reverse Current	I_{RM}	$V_{RM} = V_{RRM}$ $T_j = 25^{\circ}C$	1.0	mA
Thermal Resistance, junction to ambient	$R_{th(j-a)}$	P.C. Board mounted*	81	°C/W
		Without Fin or P.C. Board	130	

* P.C. Board Print Land = 10x10mm

◆ For spare parts only

FIG.1-FORWARD VOLTAGE VS. FORWARD CURRENT

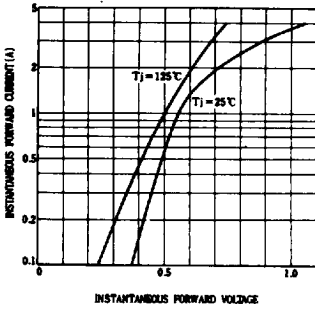


FIG.2-AVERAGE FORWARD POWER DISSIPATION

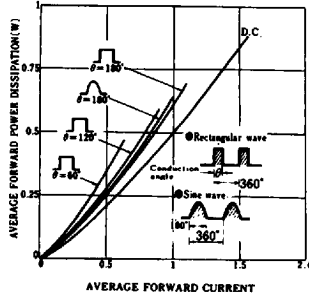


FIG.3-PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

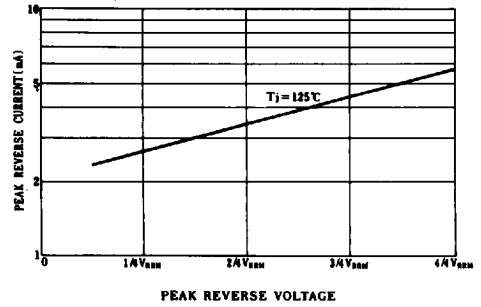


FIG.4-AVERAGE REVERSE POWER DISSIPATION

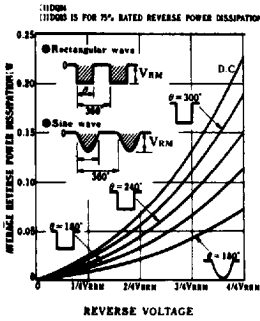


FIG.5-AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

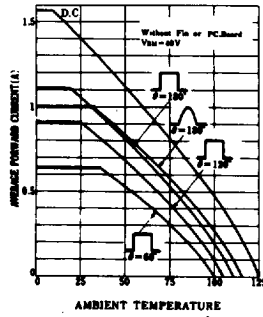


FIG.6-AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

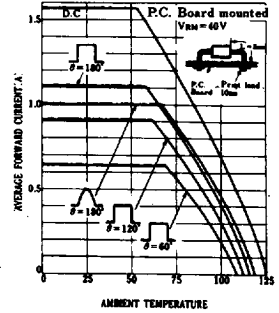


FIG.7-SURGE CURRENT RATINGS

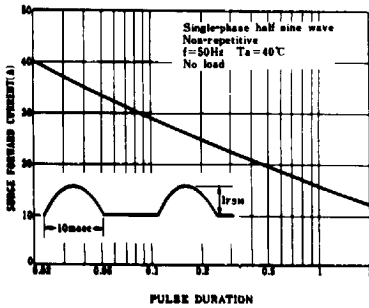


FIG.8-JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

