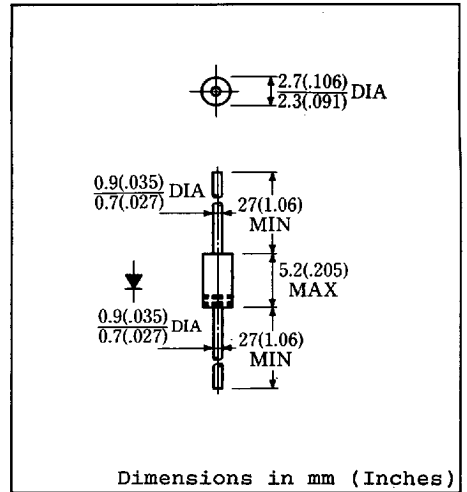


FEATURES

- Miniature Size
- Super Fast Recovery
- Low Forward Voltage Drop
- Low Power Loss, High Efficiency
- High Surge Capability
- 100 Volts thru 800 Volts Types Available
- 52mm Inside Tape Spacing Package Available



Approx. Net Weight: 0.33 Grams

MAXIMUM RATINGS

Voltage Rating	TYPE	10DF4	10DF6	◆ 10DF8	Unit	
	Symbol					
Repetitive Peak Reverse Voltage	V_{RRM}	400	600	800	v	
Non-Repetitive Peak Reverse Voltage	V_{RSM}	500	700	900	v	
Electrical Rating	Symbol	Condition		Rating	Unit	
Average Rectified Output Current	I_O	P.C. Board mounted*	180° rectangular wave conduction	$T_a = 43^\circ C$	1.1	A
			180° sinusoidal wave conduction	$T_a = 52^\circ C$	1.0	
		Without FIN, PCB.	$T_a = 12^\circ C$	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		40	A	
Operating Junction Temperature Range	T_{jw}			-40 to 150	°C	
Storage Temperature Range	T_{stg}			-40 to 150	°C	

ELECTRICAL & THERMAL CHARACTERISTICS

Characteristics	Symbol	Test Condition		Max.	Unit
Peak Forward Voltage	V_{FM}	$I_{FM} = 1.0A$	$T_j = 25^\circ C$	1.2	v
Peak Reverse Current	I_{RM}	$V_{RM} = V_{RRM}$	$T_j = 25^\circ C$	10	μA
Reverse Recovery Time	t_{rr}	$I_F = I_R = 10mA$	$T_a = 25^\circ C$	500	ns
		$-di/dt = 50A/\mu S$	$I_{FM} = 1A$	$T_a = 25^\circ C$	
Thermal Resistance, junction to ambient	$R_{th(j-a)}$	P.C. Board mounted*		81	°C/W
		Without Fin or PCB		115	

*P.C. Board Print Land = 10 x 10 mm ♦ For spare parts only

FIG.1-FORWARD VOLTAGE VS. FORWARD CURRENT

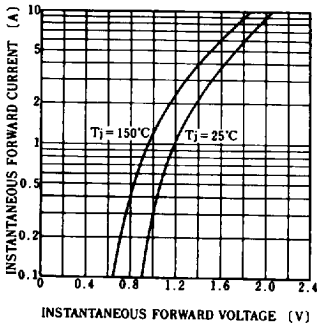


FIG.2-AVERAGE FORWARD POWER DISSIPATION

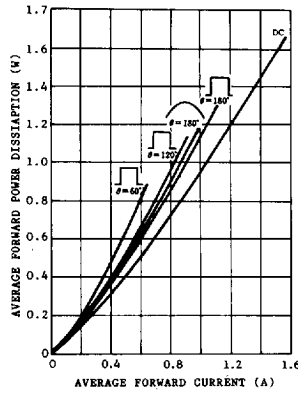


FIG.3-AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

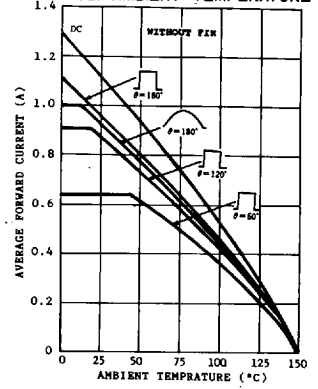


FIG.4-AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

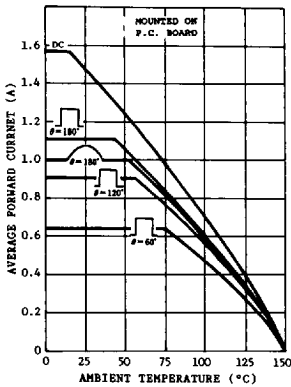
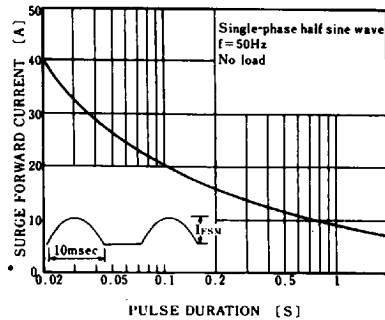


FIG.5-SURGE CURRENT RATINGS



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