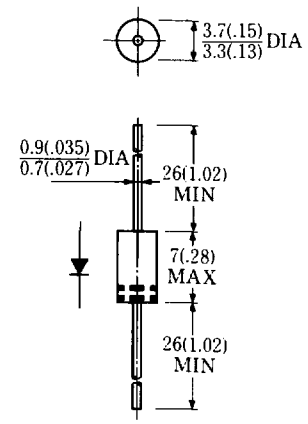
FAST RECOVERY DIODE

1.4A/400～800V/trr : 150nsec

15DF4 15DF6 15DF8

FEATURES

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



Dimensions in mm (Inches)

Approx. Net Weight : 0.38 Grams

MAXIMUM RATINGS

Voltage Rating	TYPE / Symbol	15DF4	15DF6	◆15DF8	Unit
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=28°C	1.4	A
			180° sinusoidal wave conduction	T_a=39°C	1.3	
		Without FIN, PCB.		T_a=32°C	1.0	
RMS Forward Current	$I_{F(RMS)}$				2.04	A
Peak One-cycle Forward Surge Current	I_{FSM}	50Hz half sine wave, non-repetitive			70	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} = 1.3A T_j = 25°C	1.2	V
Peak Reverse Current	I_{RM}	V_{RM} = V_{RRM} T_j = 25°C	10	μA
Reverse Recovery Time	t_{rr}	I_{FM} = 1.3A -di/dt = 50A/μS T_a = 25°C	150	ns
Thermal Resistance, junction to ambient	$R_{th(j-a)}$	P.C.Board mounted*	70	°C/W
		Without Fin or P.C.Board	105	

*P.C.Board Print Land = 15 x 15 mm

◆For spare parts only

FIG.1-FORWARD VOLTAGE VS. FORWARD CURRENT

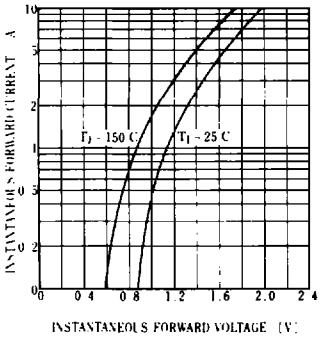


FIG.2-AVERAGE FORWARD POWER DISSIPATION

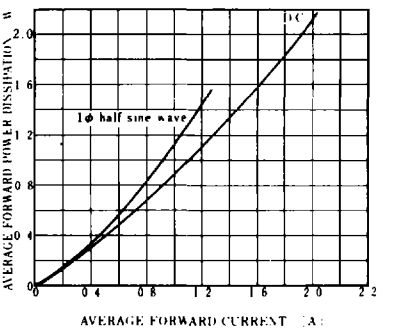


FIG.3-AVERAGE FORWARD CURRENT VS AMBIENT TEMPERATURE

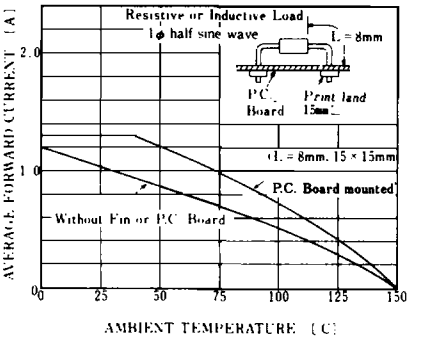
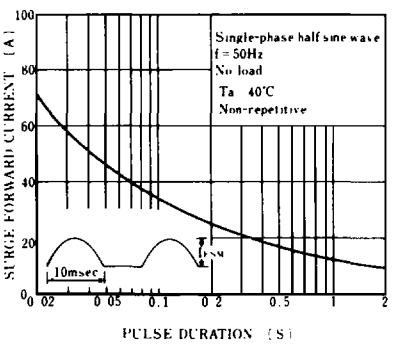


FIG.4-SURGE CURRENT RATINGS



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