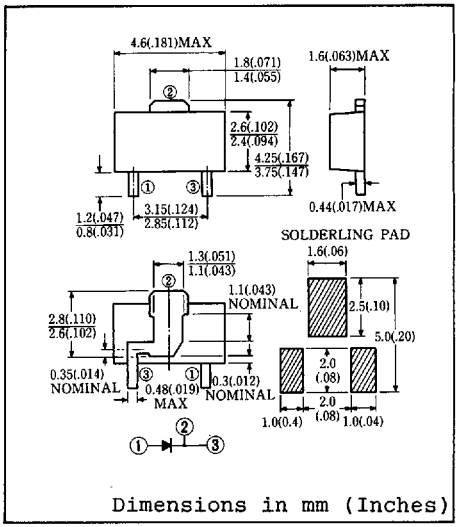
FAST RECOVERY DIODE

1.1A/300～400V/trr : 30nsec

E11FS3 E11FS4

- Similar to TO-243AB (SOT-89) Case
- Surface Mount Device
- Ultra - Fast Recovery
- Low Forward Voltage Drop
- Low Power Loss, High Efficiency
- 100 Volts thru 400 Volts Types Available
- Packaged in 12mm Tape and Reel



Dimensions in mm (Inches)

Approx. Net Weight : 0.05 Grams

MAXIMUM RATINGS

Voltage Rating	TYPE / Symbol	◆E11FS3	◆E11FS4	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	300	400	V
Non-Repetitive Peak Reverse Voltage	V_{RSM}	330	440	V

Electrical Rating	Symbol	Condition	Rating	Unit
Average Rectified Output Current	I_o	180° rectangular wave conduction P.C. Board mounted* T_a = 13°C	1.1	A
		180° sinusoidal wave conduction P.C. Board mounted* T_a = 25°C	1.0	
RMS Forward Current	$I_{F(RMS)}$		1.57	A
Peak One-cycle Forward Surge Current	I_{FSM}	50Hz half sine wqve, non-repetitive	20	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°C	1.25	V
Peak Reverse Current	I_{RM}	V_{RM} = V_{RRM} T_j = 25°C	20	μA
Reverse Recovery Time	t_{rr}	I_{FM} = 1A -di/dt = 50A/μs T_j = 25°C	30	ns
Thermal Resistance	$R_{th(j-a)}$	Junction to Ambient, PCB mounted*	110	°C/W

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

◆For spare parts only

FIG.1-FORWARD VOLTAGE VS. FORWARD CURRENT

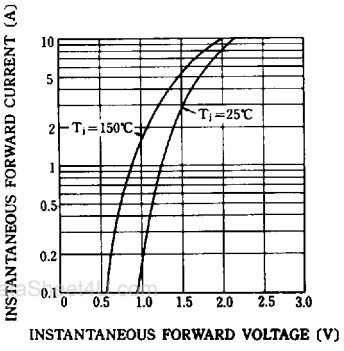


FIG.2-AVERAGE FORWARD POWER DISSIPATION

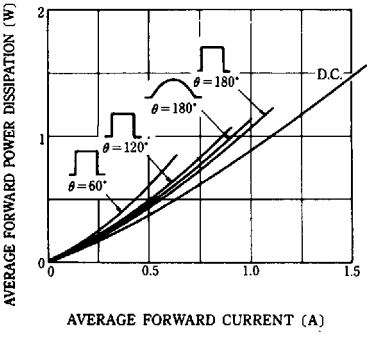


FIG.3-AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

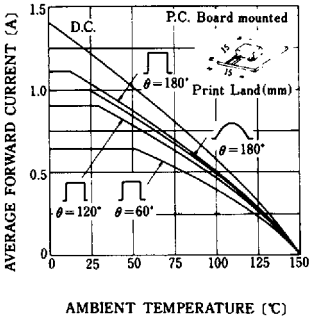


FIG.4-SURGE CURRENT RATINGS