DS2510

Equivalent To:
FSA2510P
MMD1103P

ABSOLUTE MAXIMUM RATINGS (Note 1)

TEMPERATURE

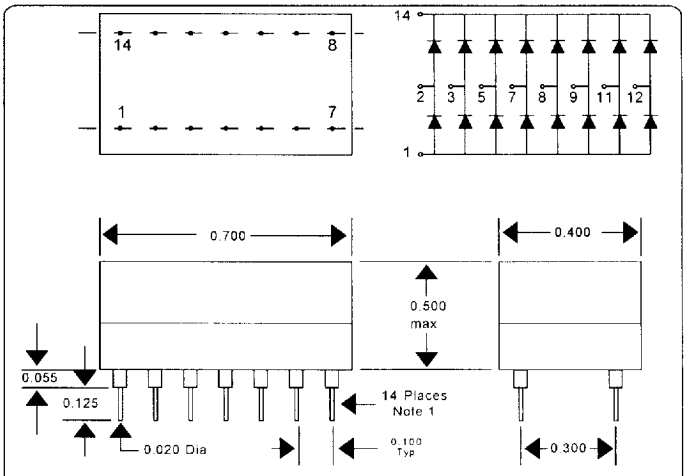
Storage Temperature Range	-55°C to +150°C
Max Junction Operating Temp.	+150°C
Maximum Lead Temperature	+260°C

POWER DISSIPATION (Note2)

Max Dissipation per junction at 25°C Ambient	400 mW
Max Dissipation per Package at 25°C.	650 mW
Linear Derating factor (from 25°C) - Junction	3.2 mW/°C
- Package	5.2 mW/°C

MAXIMUM VOLTAGE and CURRENTS

WIV - Working Inverse Voltage	40 V
I_o - Continuous Forward Current	350 mA
$I_{F(surge)}$ - Peak Forward Surge Current	
- Pulse Width = 1.0 sec.	1.0A
- Pulse Width = 1.0 usec	2.0A



Note 1: DIP sockets have 0.020" diameter solder tail. Brass sleeves and contacts plated with 200 uinches Tin (30u" Gold also available). Glass filled thermoplastic polyester insulator, rated UL 94V-O.Assembled with hermetically sealed glass diodes.

ELECTRICAL CHARACTERISTICS at 25 °C

SYMBOL	CHARACTERICTIC	MIN	MAX	UNITS	TEST CONDITIONS
V_{BR}	Breakdown Voltage	60		V	I_R=10 uA
V_F	Forward Voltage (Note 3)		1.0 1.1 1.3	V V V	I_F=100 mA I_F=200 mA I_F=500 mA
V_F	Forward Voltage Match		15	mV	I_F=10 mA
I_R	Reverse Current		100 100	nA uA	V_R=40 V, T_A= 25°C V_R=40 V, T_A=125°C
C	Capacitance (Note 4)		3.0	pF	I_F=500 mA
t_{fr}	Forward Recovery Time		40	ns	V_R=0, f=1.0 MHz
t_{rr}	Reverse Recovery Time		10 50	ns ns	IF=IR=10 mA to 200 mA, R_L=100 ohms, I_{rr}=0.1I_R IF=500 mA, Ir=50 mA, R_L=100 ohms, I_{rr}=5.0 mA

Notes:

1. These ratings are maximum values, above which life or satisfactory performance may be impaired.
2. These are steady state limits.
3. V_F is measured using an 8 mA pulse.
4. The capacitance is measured from pin to pin across any one of the diodes. The interaction of othe diodes is therefore included in the measured value.