DS2501 Equivalent to: FSA2501P

ABSOLUTE MAXIMUM RATINGS (Note 1)

TEMPERATURE

Storage Temperature Range -55° C to $+150^{\circ}$ C Max Junction Operating Temp. $+150^{\circ}$ C Maximum Lead Temperature $+260^{\circ}$ C

POWER DISSIPATION (Note2)

WIV - Working Inverse Voltage

Max Dissipation per Junction at 25°C Ambient
Max Dissipation per Package at 25°C.

Linear Derating Factor (from 25°C) - Junction
- Package

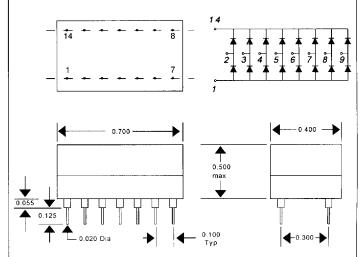
- Package

400 mW
650 mW
620 mW/°C

MAXIMUM VOLTAGE and CURRENTS

I, - Continuous Forward Current
350 mA

I_{F.surge}, - Peak Forward Surge Current
- Pulse Width = 1.0 sec.
- Pulse Width = 1.0 usec
2.0A



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 _{B R}	Breakdown Voltage	60		V	I _R =10 uA
V _F	Forward Voltage (Note 3)		1.0 1.1 1.5	< < <	I _F =100 mA I _F =200 mA I _F =500 mA
V _F	Forward Voltage Match		15	m V	I _F =10 mA
I _R	Reverse Current		100 200	n A u A	V _R =50 V, T _A = 25° C V _R =50 V, T _A = 125° C
С	Capacitance (Note 4)		5.0	pF	V _R =0, f=1.0 MHz
t ,,	Forward Recovery Time		40	ns	I _F =500 mA
V _{FM}	Reverse Recovery Time		10	ns	I _r =1,=10 mA to 200 mA R _i =100 ohm, I _{rr} =0.1 I _R
			50	ns	l _i =500 mA, l _. =50 mA R _i =100 ohm, l _. ,=5.0 mA

Notes:

1. These ratings are maximum values, above which life or satisfactory performance may be impaired.

50 V

- 2. These are steady state limits.
- 3. V_e is measured using an 8 mA pulse.
- The capacitance is measured from pin to pin across any one of the diodes. The interaction of other diodes is therefore included in the measured value.