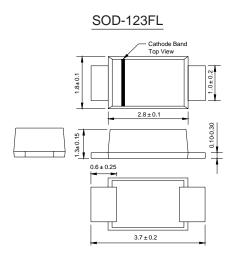


DSF1A THRU DSF1J

SURFACE MOUNT SUPER FAST RECTIFIER

Reverse Voltage - 50 to 600 Volts Forward Current - 1.0 Ampere



Dimensions in millimeters

FEATURES

- Glass passivated device
- ◆ Ideal for surface mouted applications
- ◆ Low reverse leakage
- Metallurgically bonded construction
- → High temperature soldering guaranteed: 250°C/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC SOD-123FL molded plastic body over passivated chip

Terminals: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.0007 ounce, 0.02 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

•	•								
MDD Catalog Number	SYMBOLS	DSF1A E1A	DSF1B E1B	DSF1C E1C	DSF1D E1D	DSF1E E1E	DSF1G E1G	DSF1J E1J	UNITS
Maximum repetitive peak reverse voltage	VRRM	50	100	150	200	300	400	600	VOLTS
Maximum RMS voltage	VRMS	35	70	105	140	210	280	420	VOLTS
Maximum DC blocking voltage	VDC	50	100	150	200	300	400	600	VOLTS
Maximum average forward rectified current	l(AV)	1.0							Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	25.0							Amps
Maximum instantaneous forward voltage at1.0A	VF	0.95 1.25 1.7					Volts		
Maximum DC reverse current at rated DC blocking voltage Ta=25℃ Ta=100℃	lr	5.0 100.0							μА
Maximum reverse recovery time (NOTE 1)	trr	35							ns
Typical junction capacitance (NOTE 2)	Cı	10							pF
Typical thermal resistance (NOTE 3)	RθJA	85							K/W
Operating junction and storage temperature range	ТЈ,Тѕтс	-55 to +150							°C

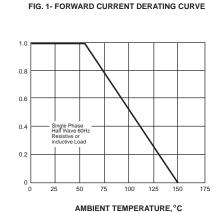
Note: 1.Measured with IF=0.5A, IR=1A, Irr=0.25A.

2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

3.PCB mounted on 0.2*0.2" (5.0*5.0mm) coppeer pad area.

RATINGS AND CHARACTERISTIC CURVES DSF1A THRU DSF1J







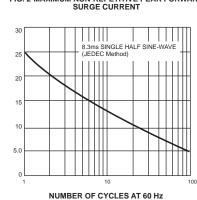


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD

INSTANTANEOUS FORWARD CURRENT, AMPERES

FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

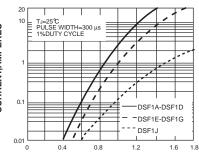
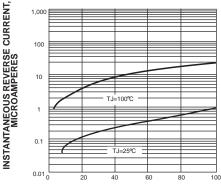


FIG. 4-TYPICAL REVERSE CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE,



PERCENT OF PEAK REVERSE VOLTAGE,%



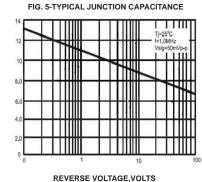
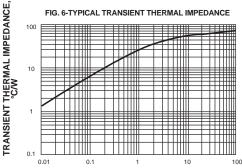


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE



t,PULSE DURATION,sec.

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