

ES1AL THRU ES1JL

SURFACE MOUNT SUPER FAST RECTIFIER

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

FEATURES

Glass passivated device Ideal for surface mouted applications Low reverse leakage Metallurgically bonded construction High temperature soldering guaranteed: 260°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,

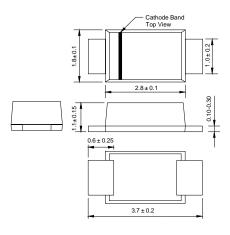
Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.0007 ounce, 0.02 grams

SOD-123FL



Dimensions in millimeters

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%.

	SYMBOLS	ES1AL EA	ES1BL EB	ES1CL EC	ES1DL ED	ES1EL EE	ES1GL EG	ES1JL EJ	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 at Ta=100°C (NOTE 1)	l(AV)	1.0							Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	30.0							Amps
Maximum instantaneous forward voltage at1.0A	VF	0.95 1.25 1.7					Volts		
Maximum DC reverse current Ta=25℃ at rated DC blocking voltage Ta=125℃	lR	5.0 100.0							μΑ
Maximum reverse recovery time (NOTE 1)	trr	35							ns
Typical junction capacitance (NOTE 2)	C¹	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.



AVERAGE FORWARD RECTIFIED CURRENT, AMPERES

INSTANTANEOUS FORWARD CURRENT, AMPERES

JUNCTION CAPACITANCE, pF

RATINGS AND CHARACTERISTIC CURVES ES1AL THRU ES1JL

FIG. 1- FORWARD CURRENT DERATING CURVE

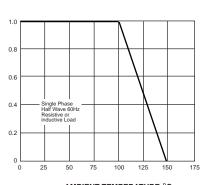
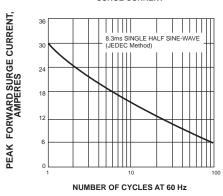
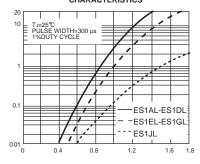


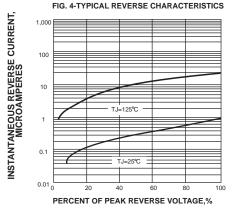
FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



AMBIENT TEMPERATURE,°C

FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS





INSTANTANEOUS FORWARD VOLTAGE, VOLTS

FIG. 5-TYPICAL JUNCTION CAPACITANCE

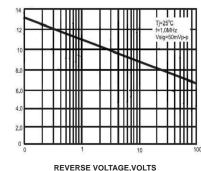
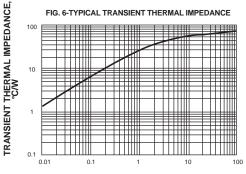


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE



t,PULSE DURATION,sec.

单击下面可查看定价,库存,交付和生命周期等信息

>>ZG(中鑫半导体)