



VOLTAGE RANGE:20-200V
CURRENT:1.0A

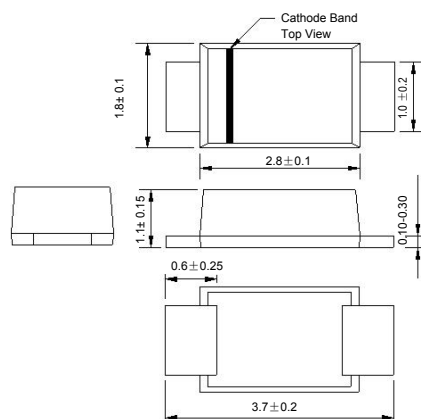
Fetures

- ◇ Plastic package has Underwriters Laboratory Flammability Classification 94V-0 utilizing Flame Retardant Epoxy Molding Compound.
- ◇ Guard ring for overvoltage protection
- ◇ High current capability, low forward voltage drop
- ◇ Low power loss, high efficiency
- ◇ High surge capability

Mechanicla Data

- ◇ Case: Molded plastic SOD-123FL
- ◇ Terminals: Plated leads solderable per MIL-STD-202,Method 208 guaranteed
- ◇ Polarity: Color band dentes cathode end
- ◇ Mounting Position: Any
- ◇ Making: Type Number
- ◇ Lead Free: For RoHS/Lead Free Version

SOD-123FL



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase,half wave,60HZ,resistive or inductive load.For capacitive load,derate by 20%.

Type Numger	Symbol	DSK 12L	DSK 14L	DSK 15L	DSK 16L	DSK 18L	DSK 19L	DSK 110L	DSK 115L	DSK 120L	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	40	50	60	80	90	100	150	200	V
Maxium RMS Voltage	V _{RMS}	14	28	35	42	56	63	70	105	140	V
Maxium DC Blocking Voltage	V _{DC}	20	40	50	60	80	90	100	150	200	V
Average Rectified Output Current (Note 1) @T _L =100℃	I _{F(AV)}	1.0									A
Peak forward surge current:8.3ms single half-sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	25									A
Forward Voltage @I _F =1.0A	V _{FM}	0.45		0.55		0.72		0.85		V	
Peak Reverse Current @T _A =25℃	I _R	1									mA
At Rated DC Blocking Voltage @T _A =100℃	I _R	10									mA
Typical Junction Capacitance (Note 2)	C _J	110									pF
Typical Thermal Resistance Junction toAmbient(Note 1)	R _{θJA}	25									℃/W
Operating Temperature Range	T _J	-55 to +150									℃
Storage Temperature Range	T _{STG}	-55 to +150									℃

Note: 1.Leads maintained at ambient temperature at a distance of 9.5mm from the case.

2.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

mensions in inches and (millimeters)

FIG. 1 - FORWARD CURRENT DERATING CURVE

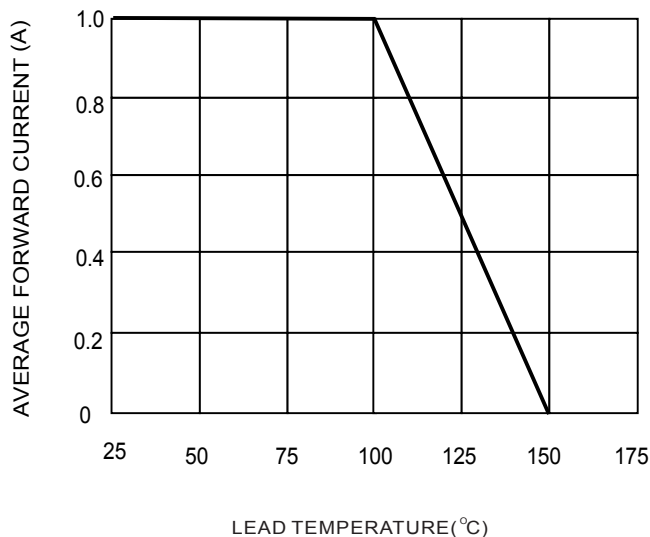


FIG.2-TYPICAL FORWARD CHARACTERISTICS

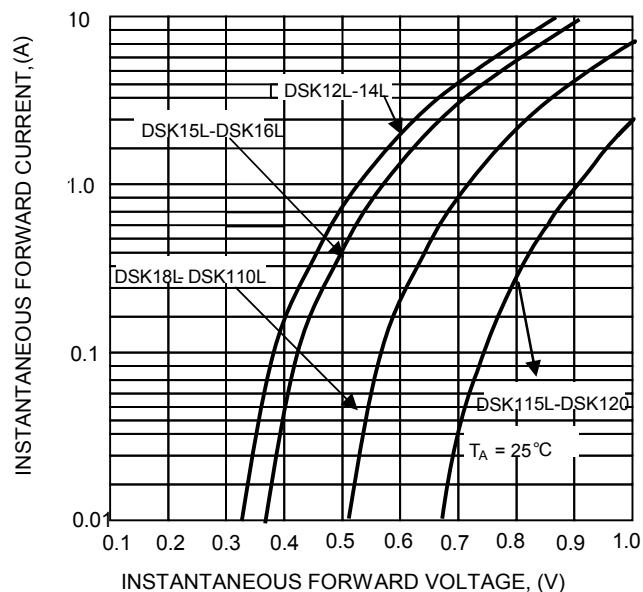


FIG. 3 MAXIMUM NON-REPETITIVE SURGE CURRENT

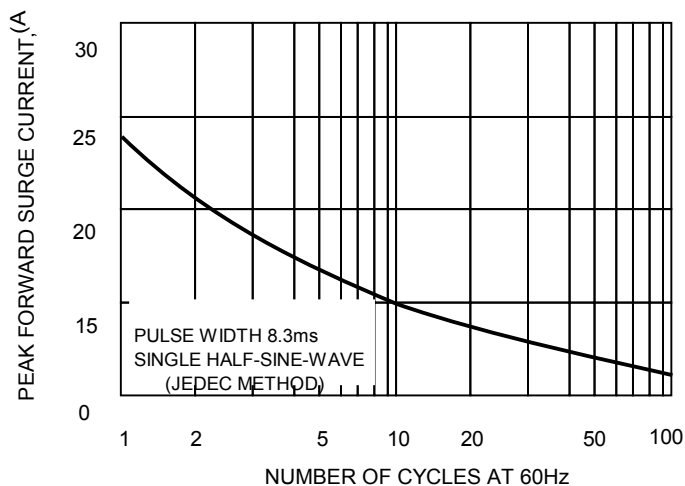
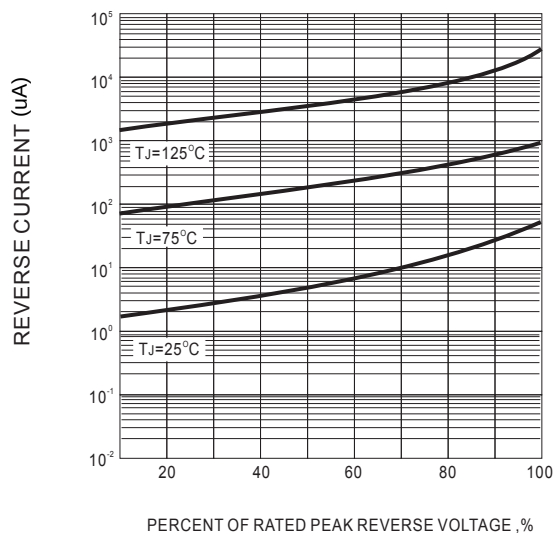


FIG.4TYPICALREVERSE CHARACTERISTIC



PACKAGE	SPQ/PCS	CARTON SPQ/PCS	CARTON SIZE/CM	CARTON GW/KG	CARTON NW/KG
SOD-123FL	3000/REEL	90000	40X20X22	5.00	4.00