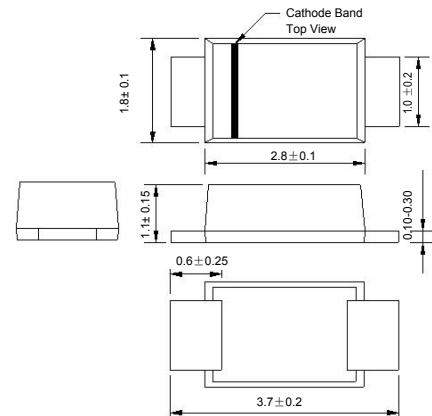



VOLTAGE RANGE:20-200V
CURRENT:1.0A
Features

- ◇ 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

Mechanical Data

- ◇ Case: Molded plastic SOD-123FL
- ◇ Terminals: Plated leads solderable per MIL-STD-202, Method 208 guaranteed
- ◇ Polarity: Color band denotes 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 Number	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
Maximum RMS Voltage	V _{RMS}	14	28	35	42	56	63	70	105	140	V
Maximum DC Blocking Voltage	V _{DC}	20	40	50	60	80	90	100	150	200	V
Average Rectified Output Current (Note 1) @T _L =100°C	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°C	I _R	1									mA
At Rated DC Blocking Voltage @T _A =100°C	I _R	10									mA
Typical Junction Capacitance (Note 2)	C _J	110									pF
Typical Thermal Resistance Junction to Ambient (Note 1)	R _{θJA}	25									°C/W
Operating Temperature Range	T _J	-55 to +150									°C
Storage Temperature Range	T _{STG}	-55 to +150									°C

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.

Dimensions in inches and (millimeters)

FIG. 1 - FORWARD CURRENT DERATING CURVE

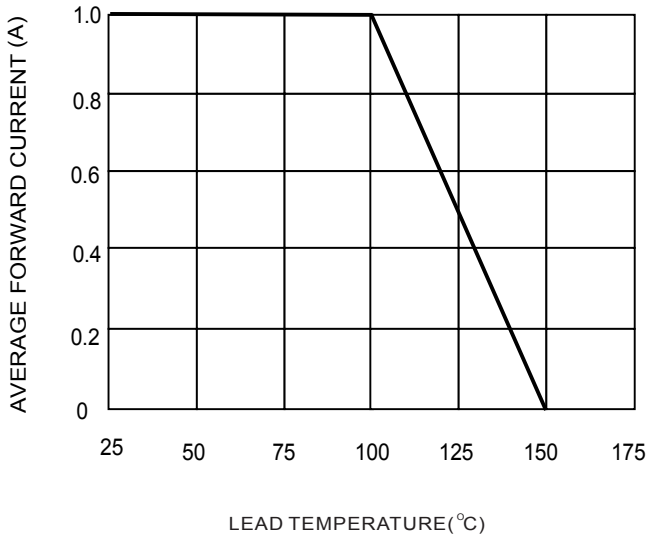


FIG.2-TYPICAL FORWARD CHARACTERISTICS

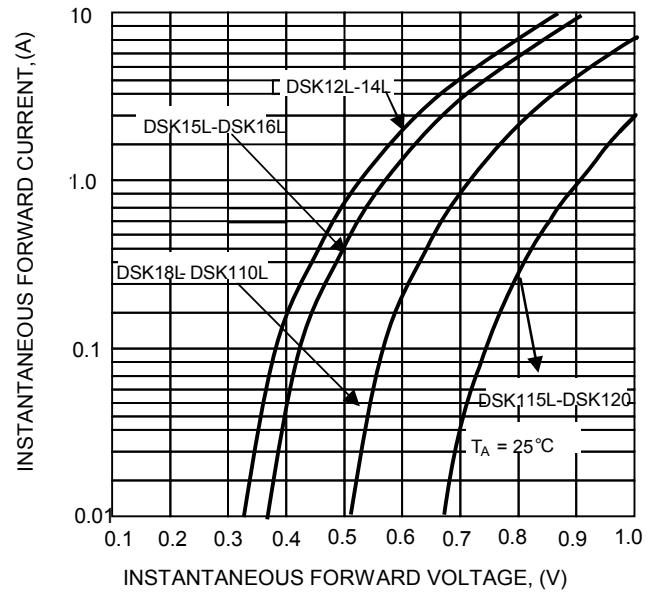


FIG. 3 MAXIMUM NON-REPETITIVE SURGE CURRENT

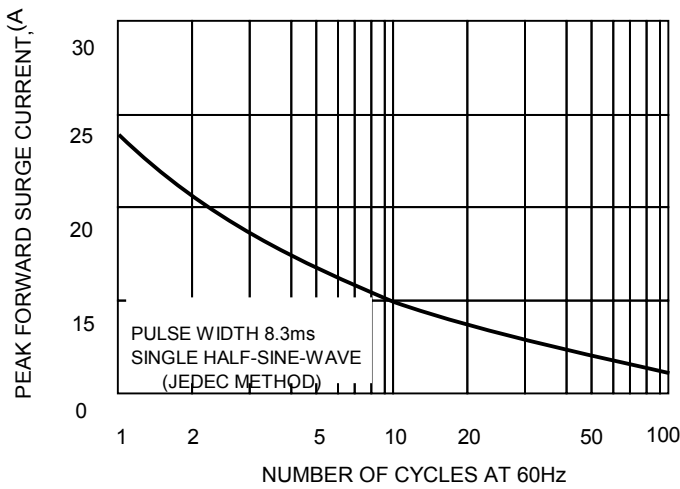
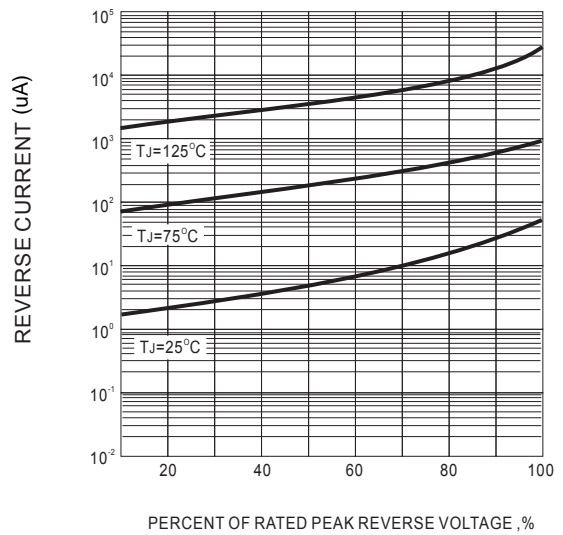


FIG.4 TYPICAL REVERSE CHARACTERISTIC



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

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[HSM190Je3/TR13](#) [B330AF-13](#) [ACDBUC0230-HF](#) [SDM1U100S1F-7](#) [MBR10200CTF-G1](#) [CDLL5712](#)