DSS22 THRU DSS210

2.0 AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

FEATURES

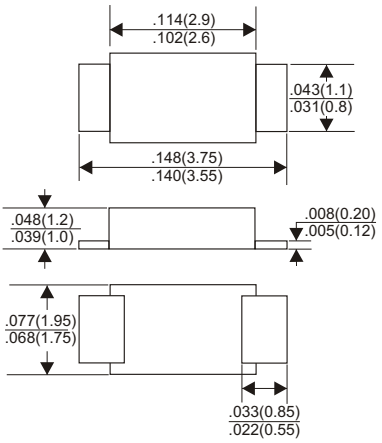
* Ideal for surface mount applications
* Easy pick and place
* Built-in strain relief
* Low forward voltage drop

MECHANICAL DATA

* Case: Molded plastic
* Epoxy: UL 94V-0 rate flame retardant
* Metallurgically bonded construction
* Polarity: Color band denotes cathode end
* Mounting position: Any

VOLTAGE RANGE
20 to 100 Volts
CURRENT
2.0 Ampere

SOD123FL



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25˚C ambient temperature unless otherwise specified.
Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

TYPE NUMBER	DSS22	DSS23	DSS24	DSS25	DSS26	DSS28	DSS29	DSS210	UNITS
Maximum Recurrent Peak Reverse Voltage	20	30	40	50	60	80	90	100	V
Maximum RMS Voltage	14	21	28	35	42	56	63	70	V
Maximum DC Blocking Voltage	20	30	40	50	60	80	90	100	V
Maximum Average Forward Rectified Current See Fig. 1	2.0								A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	50								A
Maximum Instantaneous Forward Voltage at 2.0A	0.55			0.70		0.85			V
Maximum DC Reverse Current Ta=25˚C	0.1					0.02			mA
at Rated DC Blocking Voltage Ta=100˚C	5					2			mA
Typical Junction Capacitance (Note1)	170								pF
Typical Thermal Resistance RθJA (Note 2)	80								˚C/W
Operating Temperature Range TJ	-65 — +150								˚C
Storage Temperature Range TSTG	-65 — +150								˚C
Marking Code									

NOTES:
1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance Junction to Ambient.

RATING AND CHARACTERISTIC CURVES (DSS22 THRU DSS210)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

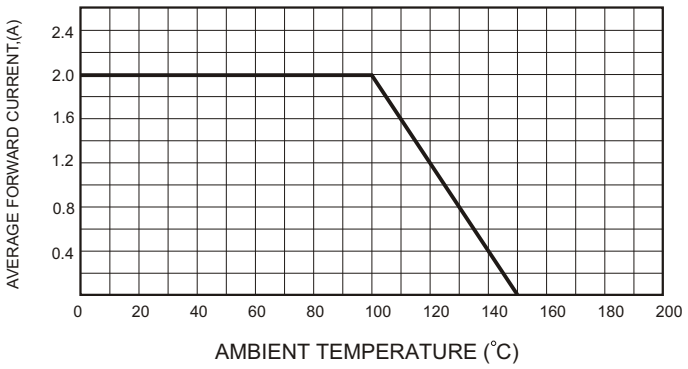


FIG.2-TYPICAL FORWARD CHARACTERISTICS

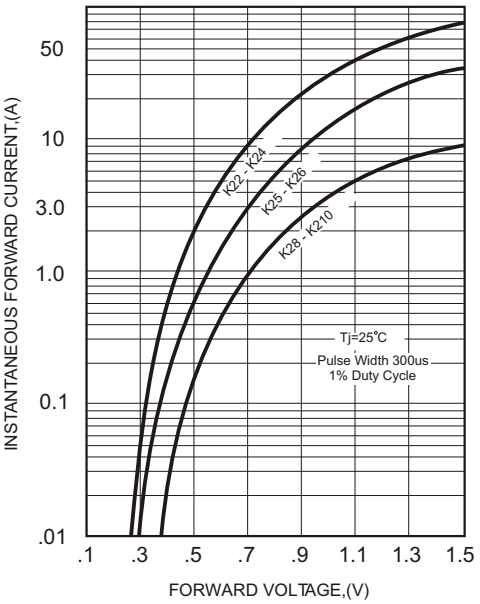


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

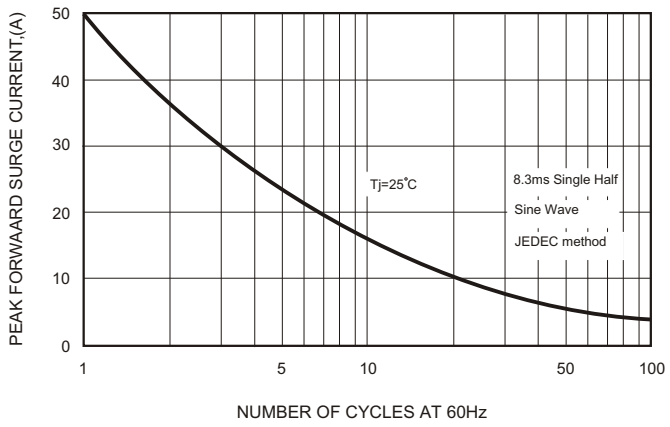


FIG.4-TYPICAL JUNCTION CAPACITANCE

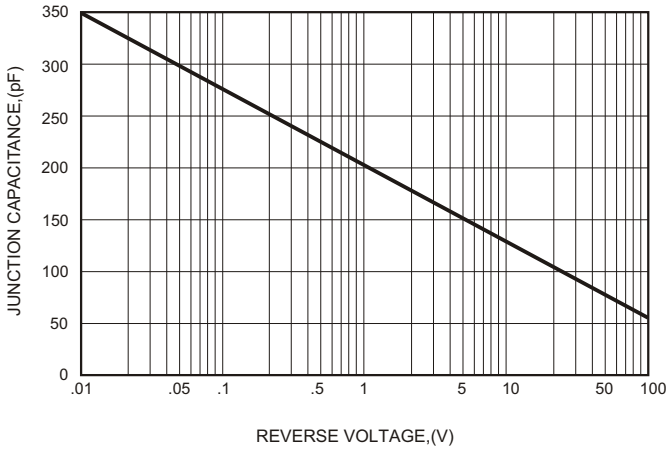


FIG.5 - TYPICAL REVERSE CHARACTERISTICS