安徽富信半导体科技有限公司

ANHUI FOSAN SEMICONDUCTOR TECHNOLOGY CO., LTD.

DSK22W THRU DSK210W

2.0 AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

VOLTAGE RANGE
20 to 100 Volts

CURRENT
2.0 Ampere

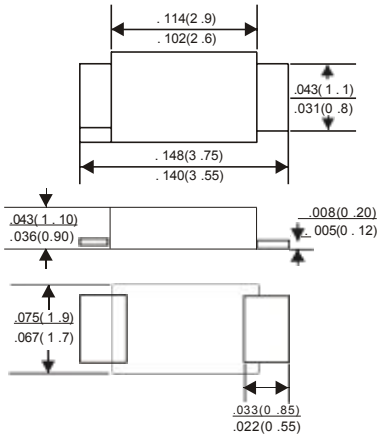
FEATURES

* 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

SOD123FL



Dimensions in inches and (millimeters)

MAXIMUMRATINGSANDELECTRICALCHARACTERISTICS

Rating 25 ℃ ambient temperature uniess otherwies specified.
Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

TYPE NUMBER	DSK22W	DSK23W	DSK24W	DSK25W	DSK26W	DSK28W	DSK29W	DSK210W	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 RJA (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 1 MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance Junction to Ambient.

RATING AND CHARACTERISTIC CURVES (DSK22W THRU DSK210W)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

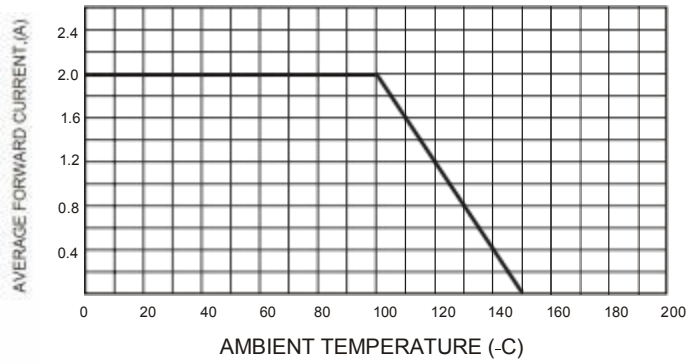


FIG.2-TYPICAL FORWARD CHARACTERISTICS

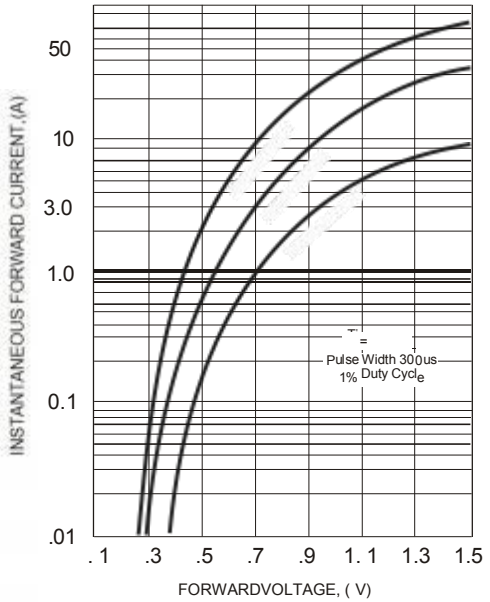


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

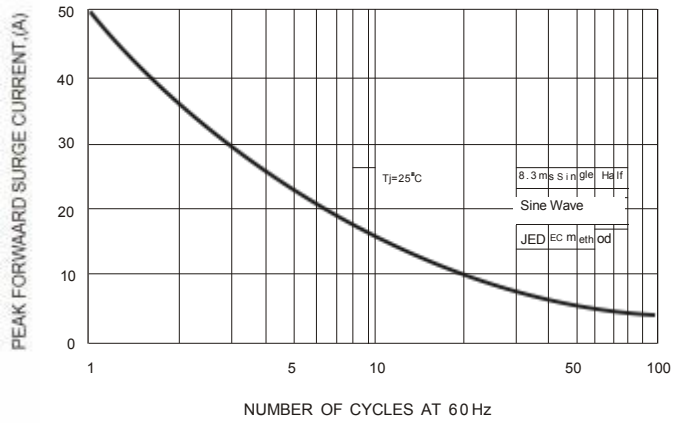


FIG.4-TYPICAL JUNCTION CAPACITANCE

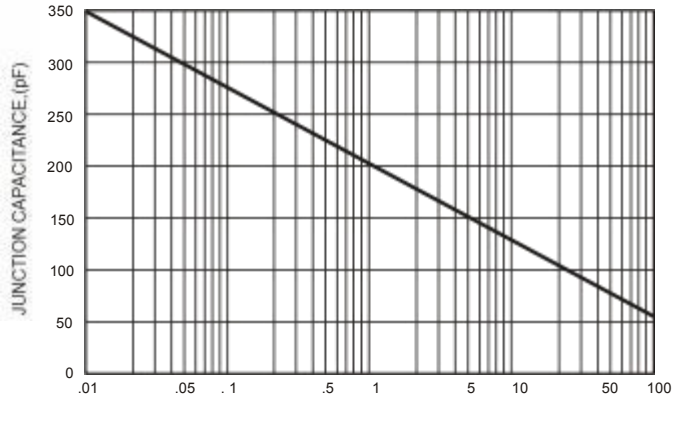


FIG.5 - TYPICAL REVERSE CHARACTERISTICS