



# 安徽富信半导体科技有限公司

ANHUI FOSAN SEMICONDUCTOR TECHNOLOGY CO., LTD.

## DSK32W THRU DSK310W 3.0 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

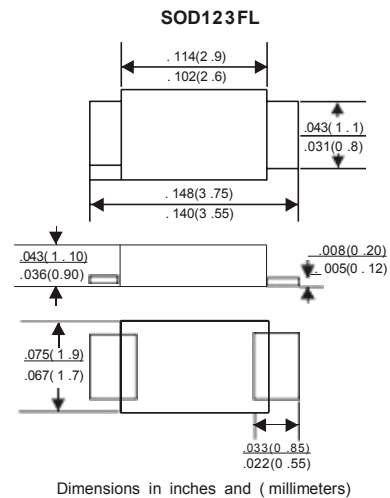
- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Metallurgically bonded construction
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any

### VOLTAGE RANGE

20 to 100 Volts

### CURRENT

3.0 Ampere



### 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	DSK32W	DSK33W	DSK34W	DSK35W	DSK36W	DSK38W	DSK39W	DSK310W	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										
At T <sub>L</sub> =100 °C									3.0	A
Peak Forward Surge Current, 8 .3 ms single half sine-wave superimposed on rated load ( JEDEC method)									80	A
Maximum Instantaneous Forward Voltage at 3 .0 A	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 )									300	P F
Typical Thermal Resistance R <sub>JL</sub> ( Note 2 )									10	C/W
Operating Temperature Range T <sub>J</sub>									-65 — + 150	°C
Storage Temperature Range T <sub>STG</sub>									-65 — + 150	C

#### NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Thermal Resistance Junction to Lead.

## RATING AND CHARACTERISTIC CURVES (DSK32W THRU DSK310W)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

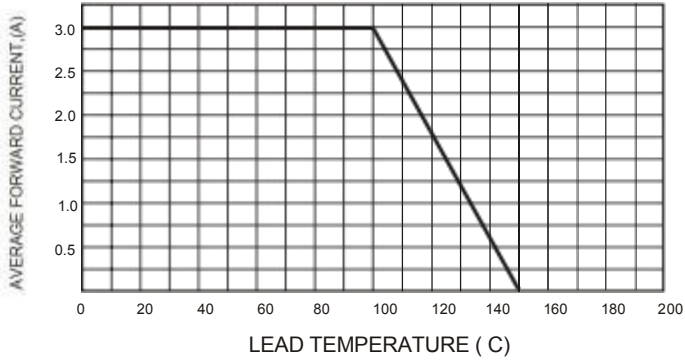


FIG.2-TYPICAL FORWARD CHARACTERISTICS

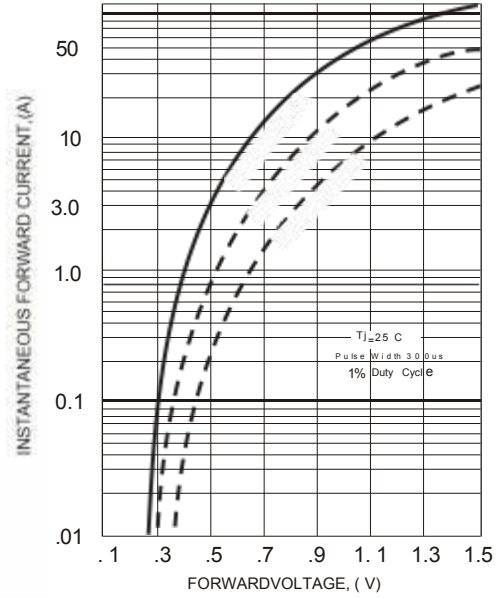


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

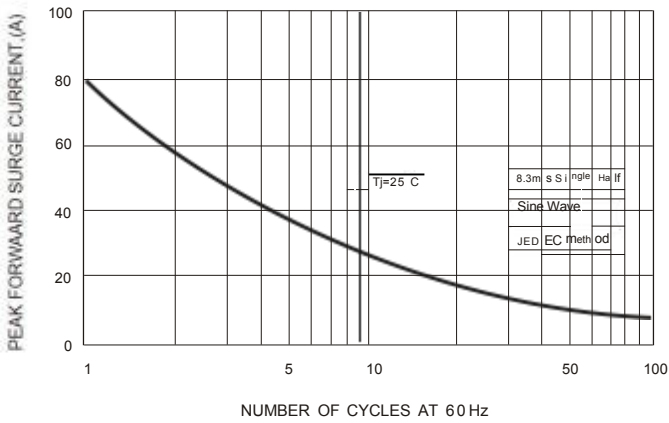


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

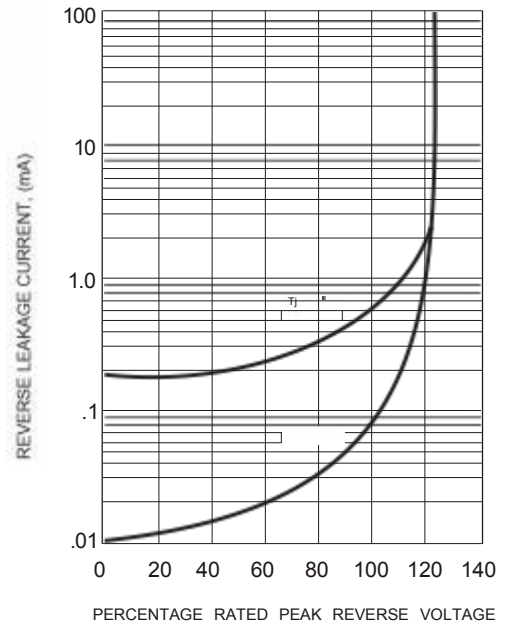


FIG.4-TYPICAL JUNCTION CAPACITANCE

