GOODWORK

DSK32 THRU DSK320

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

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

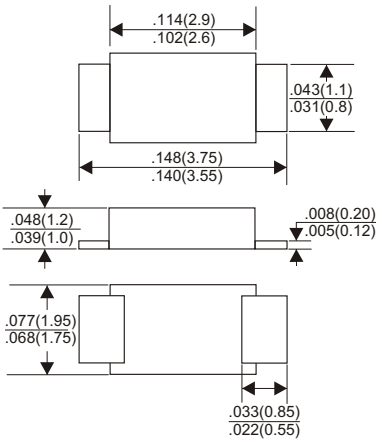
VOLTAGE RANGE

20 to 100 Volts

CURRENT

3.0 Ampere

SOD123FL



Dimensions in inches and (millimeters)

Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	DSK32	DSK34	DSK35	DSK36	DSK38	DSK310	DSK315	DSK320
Device marking code			K32	K34	K35	K36	K38	K310	K315	K320
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	V	20	40	50	60	80	100	150	200
Maximum RMS Voltage	V_{RMS}	V	14	28	35	42	56	70	105	140
Maximum DC blocking Voltage	V_{DC}	V	20	40	50	60	80	100	150	200
Maximum Average Forward Rectified Current @ 60Hz sinewave, Resistance load,TL (Fig.1)	$I_{F(AV)}$	A	3.0							
Non-repetitive Peak Forward Surge Current @ t=8.3ms Half-sine wave	I_{FSM}	A	80							
Storage temperature	T_{stg}	°C	-55 ~ +150							
Junction temperature	T_j	°C	-55 ~ +125			-55 ~ +150				
Typical Thermal Resistance	$R_{\theta J-A}$	°C /W	80							
	$R_{\theta J-L}$	°C /W	20							

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Electrical Characteristics (Ta=25°C Unless otherwise noted)

PARAMETER	TEST CONDITIONS	SYMBOL	UNIT	DSK32	DSK34	DSK35	DSK36	DSK38	DSK310	DSK315	DSK320
Maximum instantaneous forward voltage	I_F=3.0A	V_F	V	0.55		0.70		0.85		0.95	
Maximum DC reverse currentat rated DC blocking voltage	V_R=V_{DC}, T_A=25°C	I_{R1}	mA	0.2				0.05			
	V_R=V_{DC}, T_A=100°C	I_{R2}		20				5			
Typical junction capacitance	4.0V DC,1MHz	C_J	pF	250		160					

RATING AND CHARACTERISTIC CURVES (DSK32 THRU DSK320)

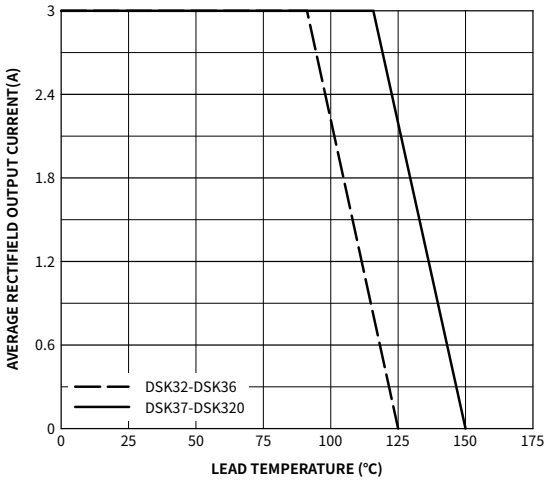

Fig.1 Forward Current Derating Curve

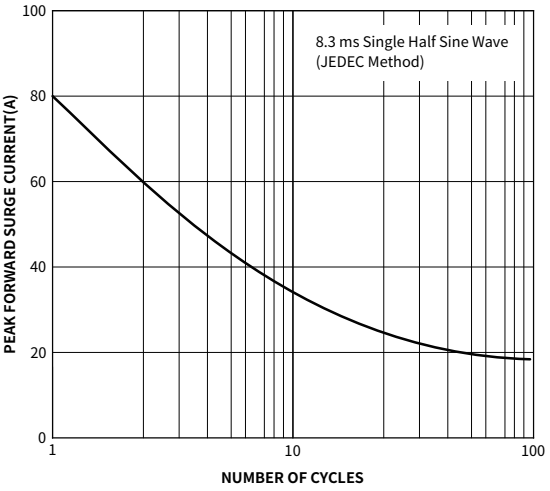

Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

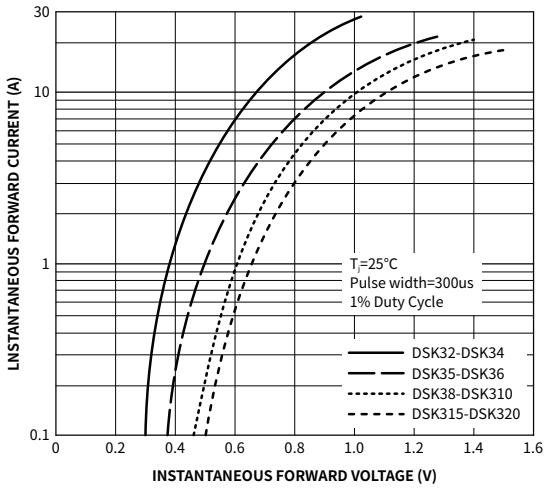

Fig.3 Typical Forward Voltage

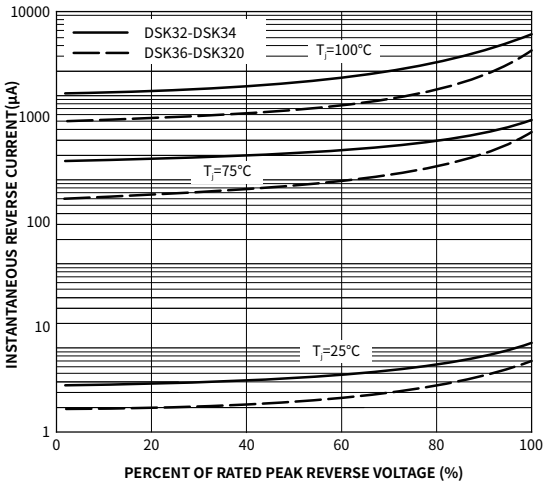

Fig.4 Typical Reverse Characteristics