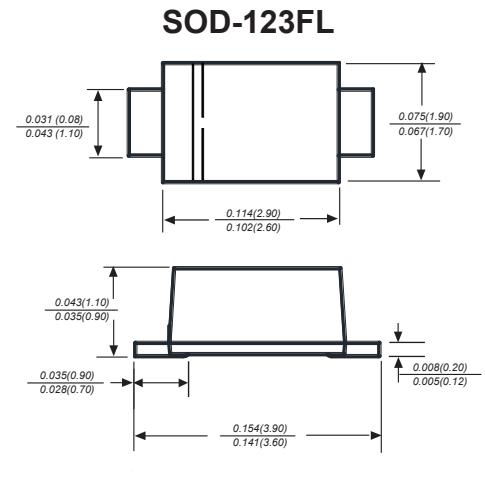


SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER DSK22 THRU DSK220

Features

1. The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
2. For surface mounted applications
3. Metal silicon junction,majority carrier conduction
4. Low power loss,high efficiency
5. Built-in strain relief,ideal for automated placement
6. High forward surge current capability
7. High temperature soldering guaranteed:
250 °C/10 seconds at terminals



Dimensions in inches and (millimeters)

Mechanical Data

Case : JEDEC SOD-123FL molded plastic body

Terminals : Solderable per MIL-STD-750,

Method 2026

Polarity : Color band denotes cathode end Mounting

Position : Any

Weight : 0.0007 ounce, 0.02 grams

Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave

60Hz,resistive or inductive load,for capacitive load current derate by 20%.

Parameter	SYMBOLS	DSK22	DSK24	DSK25	DSK26	DSK28	DSK210	DSK215	DSK220	UNITS				
Marking Code		K22	K24	K25	K26	K28	K210	K215	K220					
Maximum repetitive peak reverse voltage	V _{RRM}	20	40	50	60	80	100	150	200	V				
Maximum RMS voltage	V _{RMS}	14	28	35	42	56	70	105	140	V				
Maximum DC blocking voltage	V _{DC}	20	40	50	60	80	100	150	200	V				
Maximum average forward rectified current at TL(see fig.1)	I _(AV)	2.0							A					
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	40							A					
Maximum instantaneous forward voltage at 2.0A	V _F	0.55		0.70		0.85		V						
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =125°C	I _R	0.5				5.0				mA				
Typical junction capacitance (NOTE 1)	C _J	220		80		85.0		pF						
Typical thermal resistance (NOTE 2)	R _{θJA}	-55 to +125							°C/W					
Operating junction temperature range	T _J	-55 to +150							°C					
Storage temperature range	T _{STG}	-55 to +150							°C					

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

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER DSK22 THRU DSK220

Typical Characteristics

Fig.1 Forward Current Derating Curve

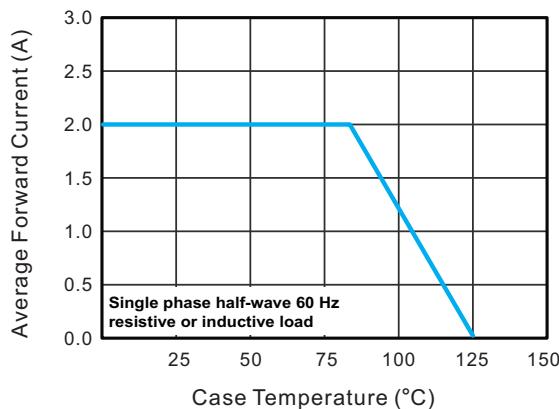


Fig.2 Typical Reverse Characteristics

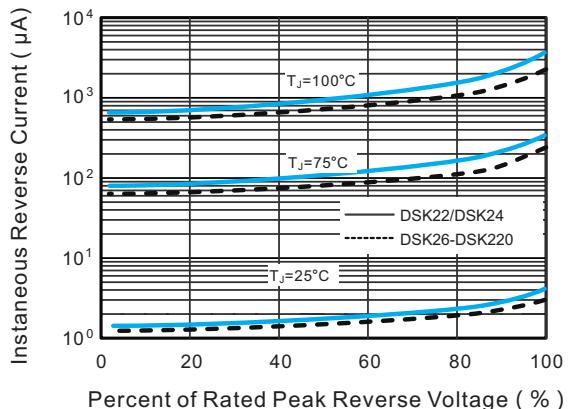


Fig.3 Typical Forward Characteristic

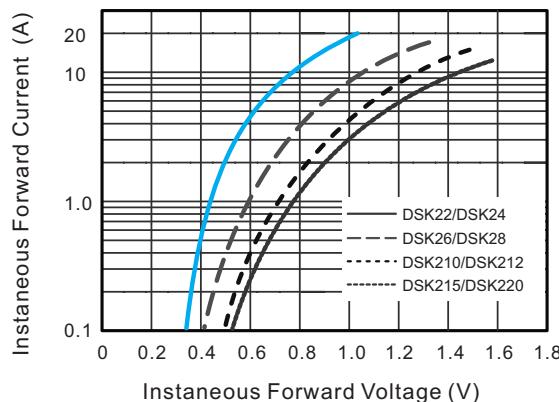


Fig.4 Typical Junction Capacitance

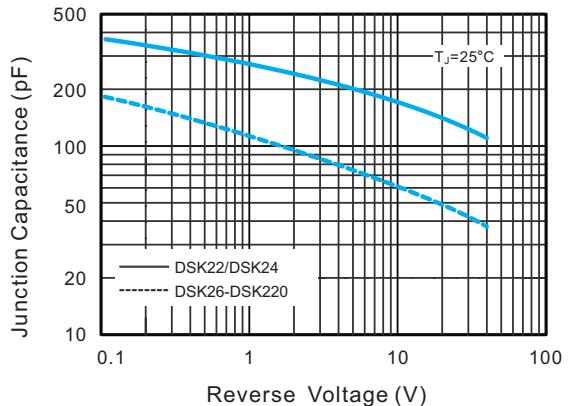


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

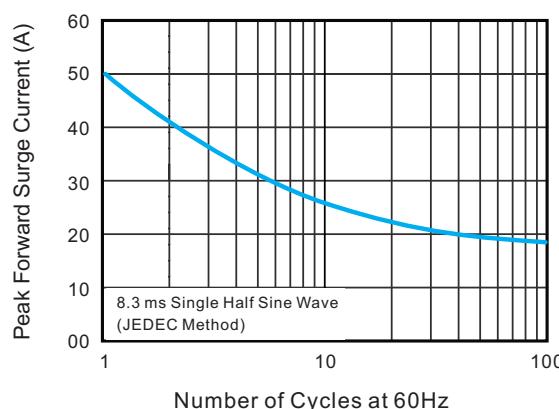
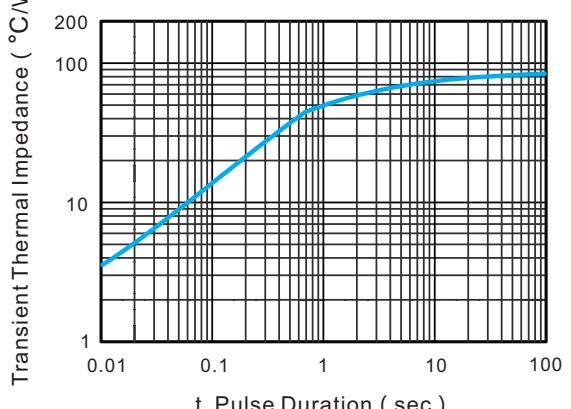
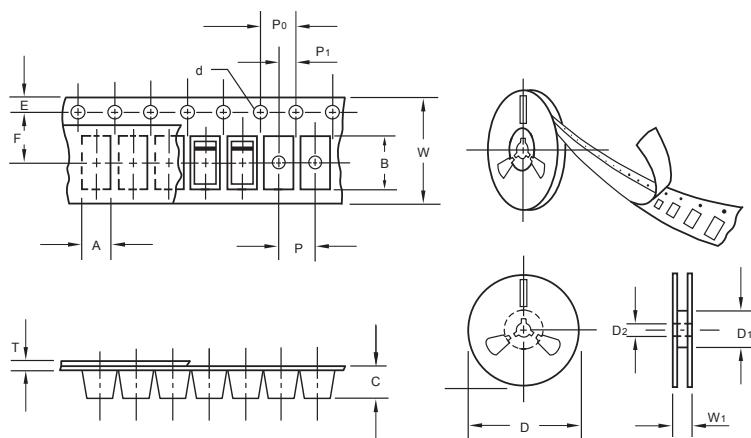


Fig.6- Typical Transient Thermal Impedance



SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER DSK22 THRU DSK220

Packing information



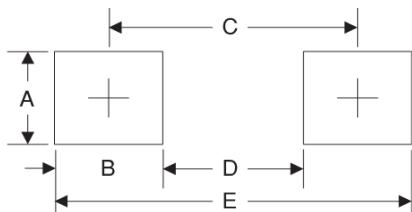
unit:mm			
Item	Symbol	Tolerance	SOD-123FL
Carrier width	A	0.1	2.1
Carrier length	B	0.1	4.0
Carrier depth	C	0.1	1.60
Sprocket hole	d	0.05	1.55
7" Reel outside diameter	D	2.0	178.00
7" Reel inner diameter	D1	min	50.0
Feed hole diameter	D2	0.5	13.00
Sprocket hole position	E	0.1	1.75
Punch hole position	F	0.1	3.50
Punch hole pitch	P	0.1	4.00
Sprocket hole pitch	P0	0.1	4.00
Embossment center	P1	0.1	2.00
Overall tape thickness	T	0.1	0.25
Tape width	W	0.3	8.15
Reel width	W1	1.0	10.5

Note: Devices are packed in accordance with EIA standard RS-481-A and specifications listed above.

Reel packing

PACKAGE	REEL SIZE	REEL (pcs)	COMPONENT SPACING (m/m)	BOX (pcs)	INNER BOX (m/m)	REEL DIA, (m/m)	CARTON SIZE (m/m)	CARTON (pcs)	APPROX. GROSS WEIGHT (kg)
SOD-123FL	7"	3,000	4.0	45,000	210*208*203	178	430*430*235	180,000	9.0

Suggested Pad Layout



Symbol	Unit (mm)	Unit (inch)
A	1.2	0.047
B	1.2	0.047
C	3.2	0.126
D	2	0.079
E	4.4	0.173