

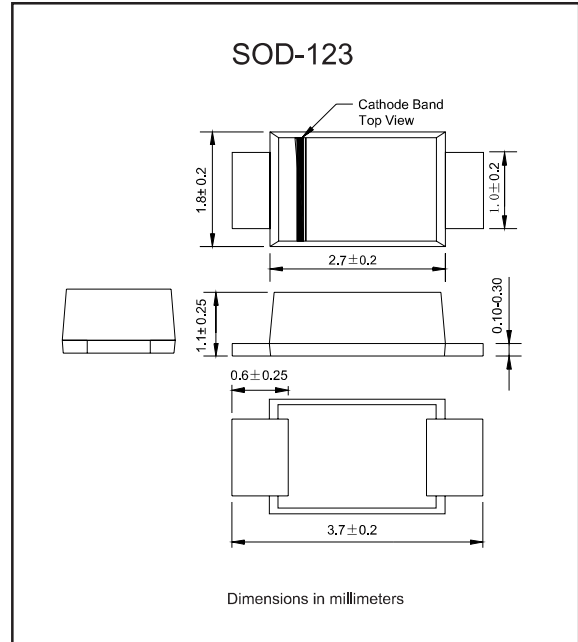
### Features

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ Metal silicon junction, majority carrier conduction
- ◆ Low power loss, high efficiency
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed:  
250°C/10 seconds, 0.375" (9.5mm) lead length,  
5 lbs. (2.3kg) tension
- ◆ Compliant to RoHS Directive 2011/65/EU
- ◆ Compliant to Halogen-free

### Mechanical data

- ◆ **Case**: JEDEC SOD-123 molded plastic body
- ◆ **Terminals**: Plated axial leads, solderable per MIL-STD-750, Method 2026
- ◆ **Polarity**: Color band denotes cathode end
- ◆ **Mounting Position**: Any

### Package outline



### Maximum ratings and Electrical Characteristics (AT $T_A=25^\circ\text{C}$ unless otherwise noted)

PARAMETER	CONDITIONS	Symbol	MIN.	TYP.	MAX.	UNIT
Forward rectified current	See Fig.1	$I_O$			2.0	A
Forward surge current	8.3ms single half sine-wave (JEDEC methode)	$I_{FSM}$			40	A
Reverse current	$T_A = 25^\circ\text{C}$	$V_R = 20\text{V} - 60\text{V}$			0.5	mA
		$V_R = 80\text{V} - 200\text{V}$			0.1	
Reverse current	$T_A = 100^\circ\text{C}$	$V_R = 20\text{V} - 60\text{V}$			10	mA
		$V_R = 80\text{V} - 200\text{V}$			5	
Thermal resistance (1)	Junction to Ambient	$R_{\theta JA}$		85		$^\circ\text{C}/\text{W}$
	Junction to Case	$R_{\theta JC}$		23		
	Junction to Lead	$R_{\theta JL}$		15		
Diode junction capacitance	f=1MHz and applied 4V DC reverse voltage	$C_J$		220		pF
Storage temperature		$T_{STG}$	-65		+150	$^\circ\text{C}$

**Note:** (1) Device mounted on p.c.b. with 10 mm x 20 mm x 0.1 mm copper pad area.

SYMBOLS	$V_{RRM}^{*1}$ (V)	$V_{RMS}^{*2}$ (V)	$V_R^{*3}$ (V)	$V_F^{*4}$ (V)	Operating temperature $T_J$ ( $^\circ\text{C}$ )
DSK22	20	14	20	0.55	-55 to +125
DSK23	30	21	30		
DSK24	40	28	40		
DSK25	50	35	50	0.70	-55 to +150
DSK26	60	42	60		
DSK28	80	56	80	0.85	
DSK210	100	70	100		
DSK215	150	105	150	0.92	
DSK220	200	140	200		

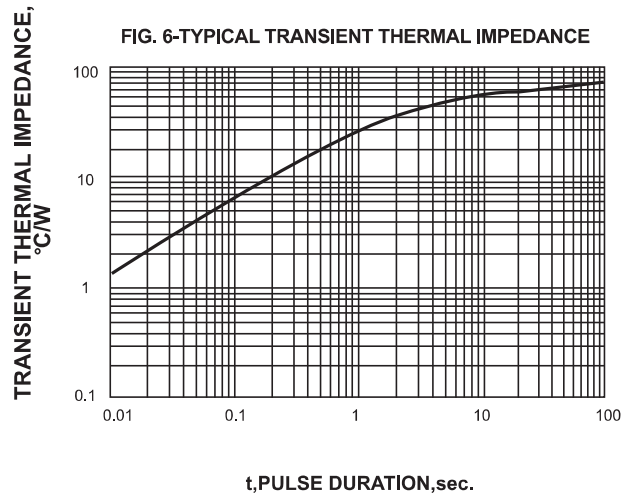
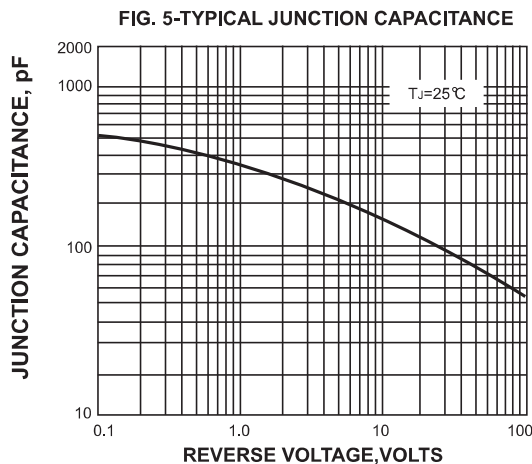
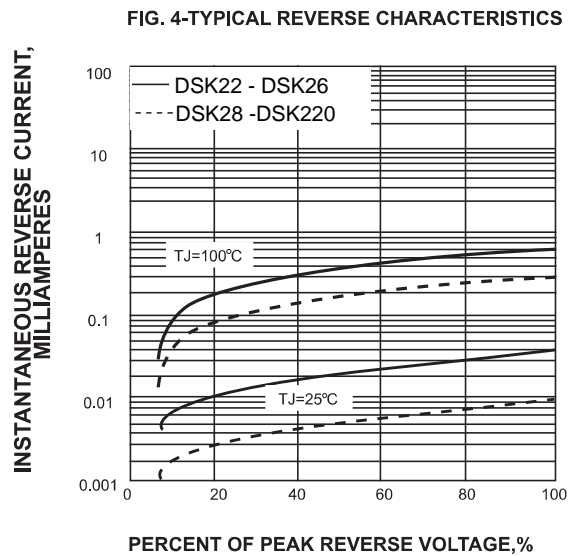
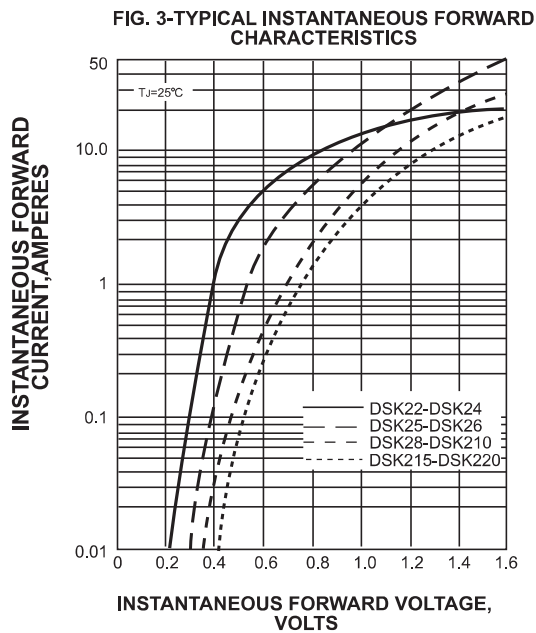
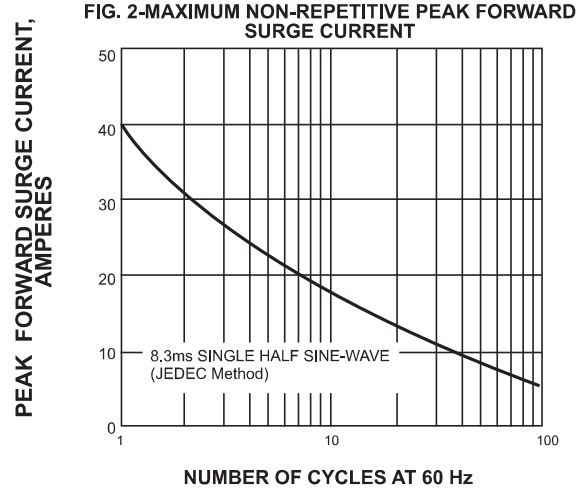
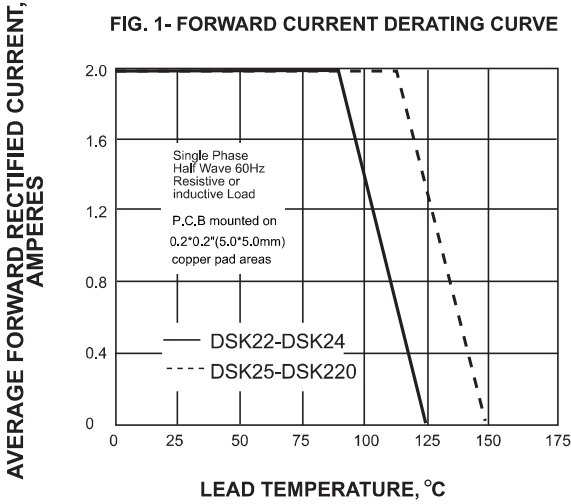
\*1 Repetitive peak reverse voltage

\*2 RMS voltage



\*3 Continuous reverse voltage

\*4 Maximum forward voltage@ $I_F=2.0\text{A}$

### Rating and characteristic curves (DSK22 THRU DSK220)



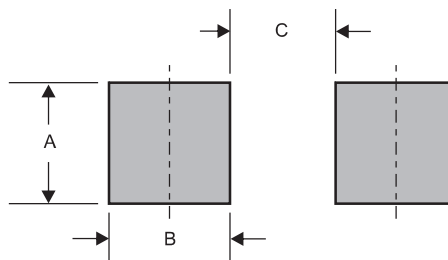
### Pinning information

Pin	Simplified outline	Symbol
Pin1 cathode Pin2 anode		

### Marking

Type number	Marking code
DSK22	22
DSK23	23
DSK24	24
DSK25	25
DSK26	26
DSK28	28
DSK210	20
DSK215	215
DSK220	220

### Suggested solder pad layout



Dimensions in inches and (millimeters)

PACKAGE	A	B	C
SOD-123	0.075 (1.90)	0.055 (1.40)	0.075 (1.90)