

## D-PAK Surface Mount Schottky Barrier Rectifiers

**(Pb)** Lead(Pb)-Free

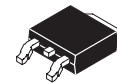
### Features:

- \* Plastic package has Underwriters Laboratory Flammability Classification 94V-O Utilizing Flame Retardant Epoxy Molding Compound.
- \* For surface mounted applications
- \* Exceeds environmental standards of MIL-S-19500 / 228
- \* Low leakage current

### Mechanical Data:

- \* Case : Molded plastic, TO-252 / DPAK
- \* Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- \* Polarity : Indicated by marking
- \* Mounting Position : Any
- \* Weight : 0.34gram

**REVERSE VOLTAGE  
20-200 VOLTS  
FORWARD CURRENT  
6 AMPERES**

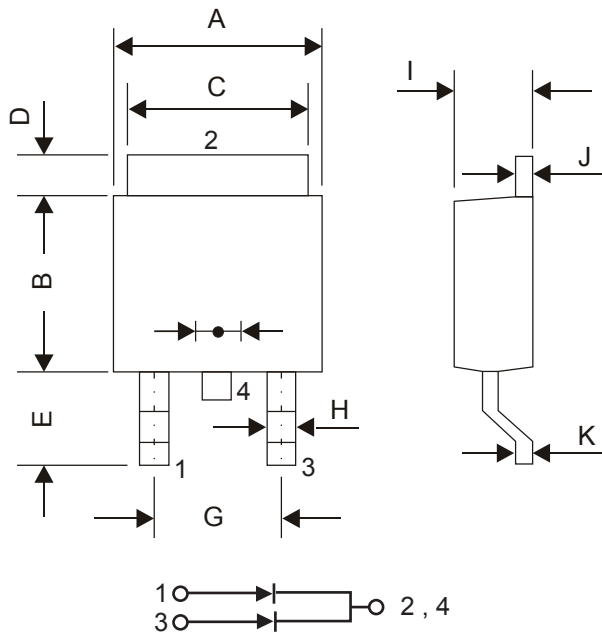


**D-PAK(TO-252)**

## D-PAK Outline Dimension

Unit:mm

### D-PAK / TO-252



D-PAK		
Dim	Min	Max
A	6.30	6.70
B	5.80	6.20
C	5.10	5.50
D	0.80	1.00
E	2.50	2.90
G	4.30	4.70
H	0.08	1.00
I	2.10	2.50
J	0.40	0.60
K	0.40	0.60

**MAXIMUM RATINGS (@ T<sub>A</sub>=25° C unless otherwise noted)**

Characteristic	Symbol	20	30	40	50	60	80	100	150	200	Unit
Repetitive peak reverse voltage	V <sub>RRM</sub>	20	30	40	50	60	80	100	150	200	V
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	35	42	56	70	105	140	V
Continuous Reverse Voltage	V <sub>R</sub>	20	30	40	50	60	80	100	150	200	V
Forward Rectified Current (Fig.1)	I <sub>F(AV)</sub>	6.0									A
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rate Load (JEDEC Methode)	I <sub>FSM</sub>	75									A
Maximum forward voltage @I <sub>F</sub> =5.0A	V <sub>F</sub>	0.55		0.75		0.85		1.0		V	
Maximum Reverse current V <sub>R</sub> = V <sub>RRM</sub> , T <sub>A</sub> = 25°C V <sub>R</sub> = V <sub>RRM</sub> , T <sub>A</sub> = 100°C	I <sub>R</sub>	0.5 20									mA
Thermal Resistance Junction to case	R <sub>θJC</sub>	5.0									°C/W
Operating Temperature Range	T <sub>J</sub>	-55 to +125									°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150									°C

**Device Marking**

	WSD620CT	WSD630CT	WSD640CT	WSD650CT	WSD660CT	WSD680CT	WSD6100CT	WSD6150CT	WSD6200CT
Marking	SK620	SK630	SK640	SK650	SK660	SK680	SK6100	SK6150	SK6200

**RATING AND CHARACTERISTIC CURVES**

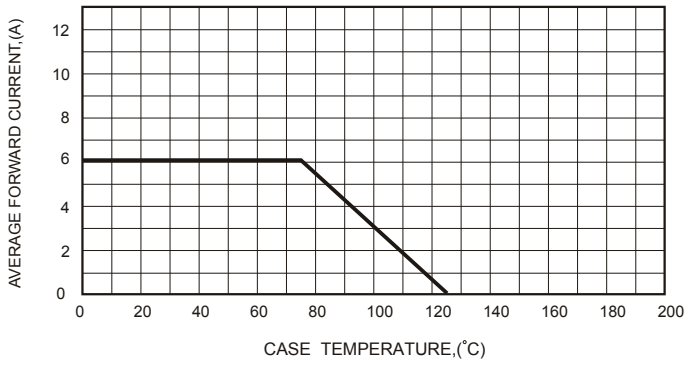


FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

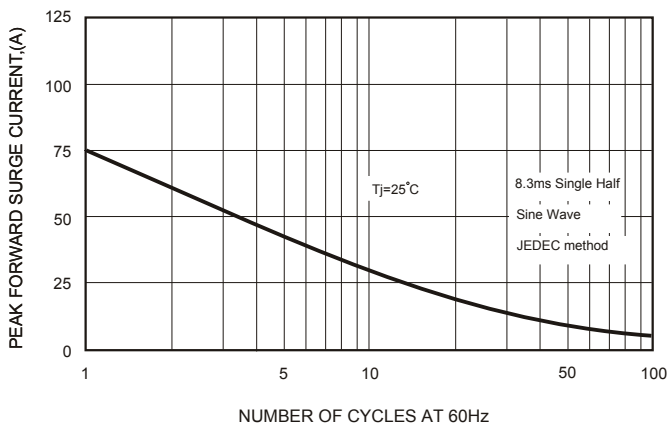


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

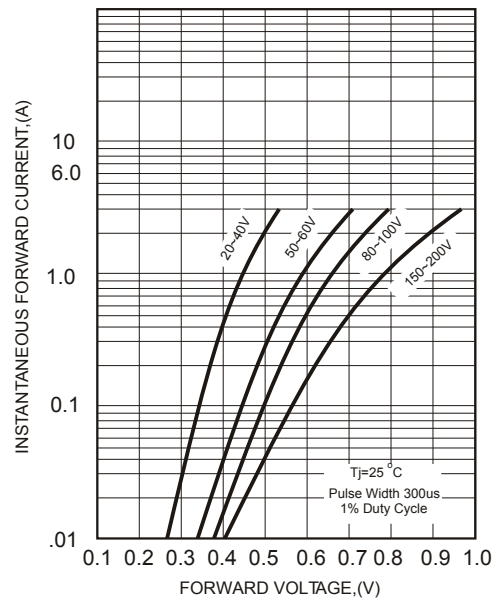


FIG.2-TYPICAL FORWARD CHARACTERISTICS

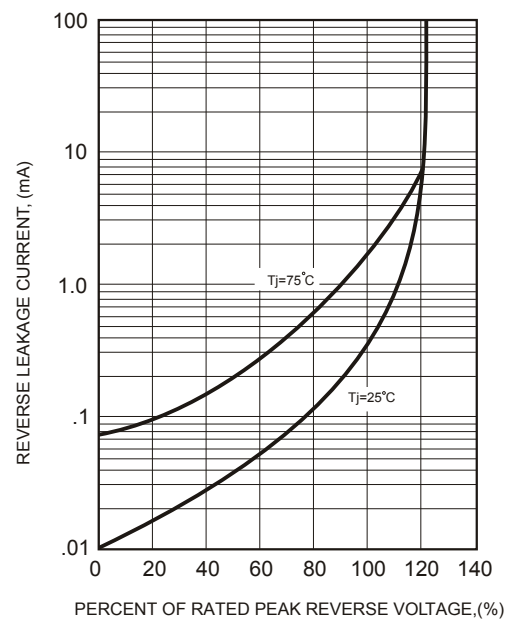


FIG.4 - TYPICAL REVERSE CHARACTERISTICS