WEITRON

WSD1040CT

D-PAK Surface Mount Schottky Barrier Rectifiers

Lead(Pb)-Free

REVERSE VOLTAGE
40 VOLTS
FORWARD CURRENT
10 AMPERES

Featrues:

*For Surface Mount Application
*Metal-Semiconductor Junction With Guardring
*Epitaxial Construction
*Low Forward Voltage Drop
*High Current Capability
*Plastic Meterial Has UL Flammability Classification 94V-0
*For Use In Low , And Polarity Protection Applications

D-PAK(TO-252)

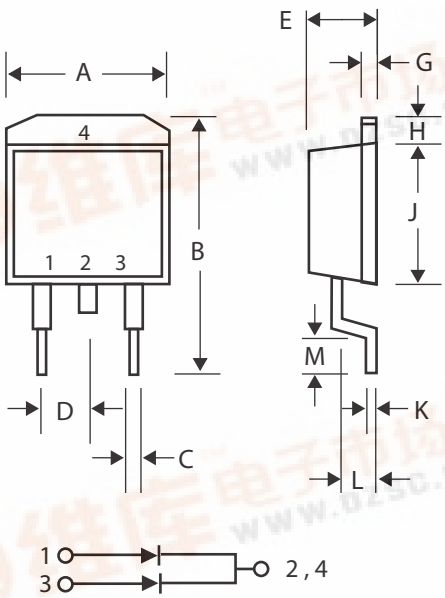
Mechanical Data

*Case : Molded Plastic
*Polarity : As Marked
*Weight : 0.295 grams

D-PAK Outline Dimension

Unit:mm

D-PAK / TO-252



D-PAK		
Dim	Min	Max
A	6.40	6.80
B	9.00	10.00
C	0.50	0.80
D	-	2.30
E	2.20	2.50
G	0.45	0.55
H	1.00	1.60
J	5.40	5.80
K	0.30	0.64
L	0.70	1.70
M	0.90	1.50

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%.

Characteristic	Symbol	Value	Unit
Maximum Recurrent Peak Reverse Voltage	VRRM	40	V
Maximum RMS Voltage	VRMS	28	V
Maximum DC Blocking Voltage	VDC	40	V
Average Recitifier Forward Current Total Device (Rated V_R), @TC=100°C	IF(AV)	5.0 10	A
Peak Forward Surge Current, 10 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	70	A
Maximum Instantaneous At 5.0A DC @TC =25°C	VF	0.55	V
Maximum DC Reverse Current @TC=25°C At Rated DC Blocking Voltage @TC=125°C	IR	0.5 40	mA
Typical Junction Capacitance	C_J	405	pF
Typical Thermal Resistance Junction to case	$R_{\theta JC}$	3.0	°C/W
Operating Temperature Range & Storage Temperature Range	TJ, TSTG	-65 to 125	°C

Device Marking

WSD1040CT=1040CT

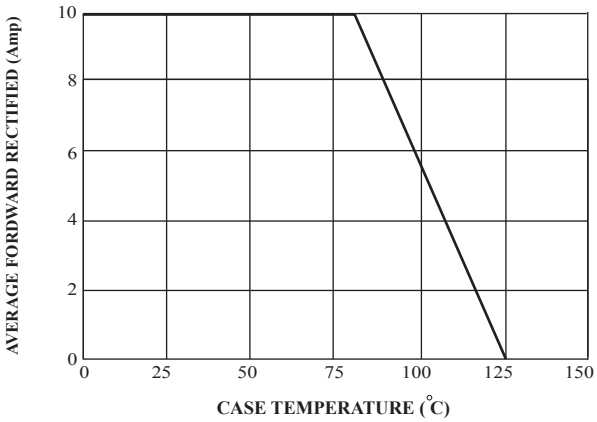


FIG.1 Forward Current Derating Curve

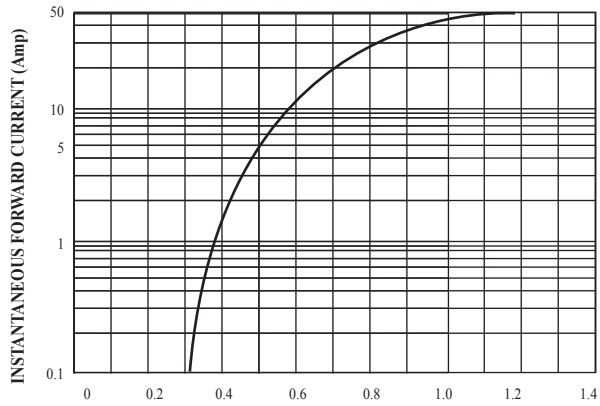


FIG.2 Typical Forward Characteristics

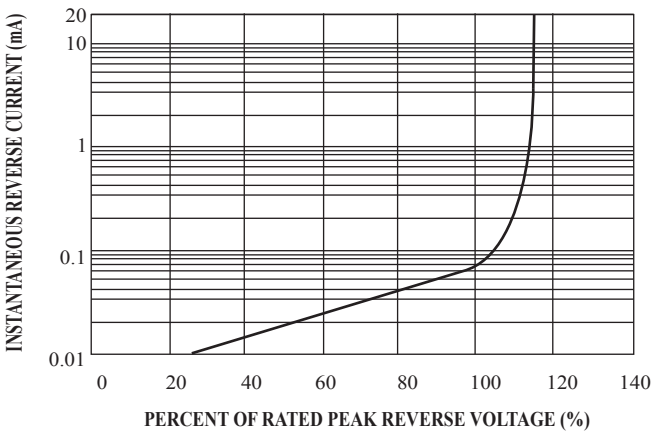


FIG.3 Typical Reverse Characteristics

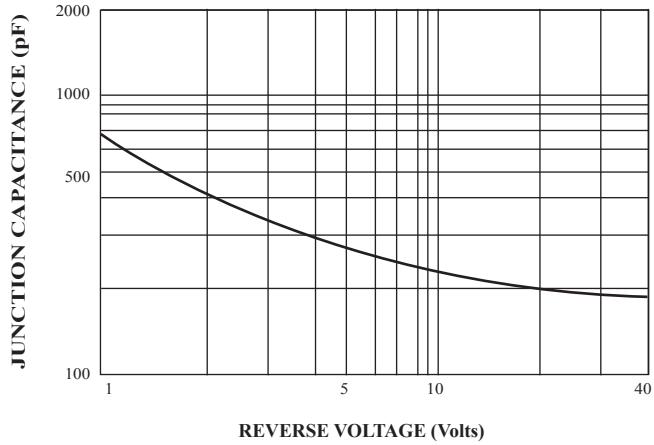


FIG.4 Typical Junction Capacitance

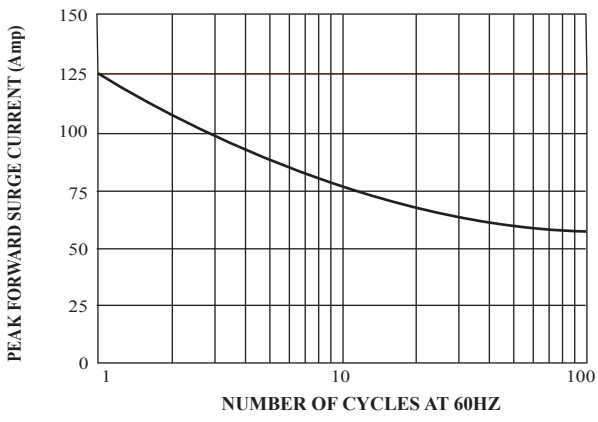


FIG.5 Peak Forward Surge Current