



PVS1545

Ultra low VF Schottky Barrier Rectifier

Voltage Range
45 Volts
Current
15.0Amperes

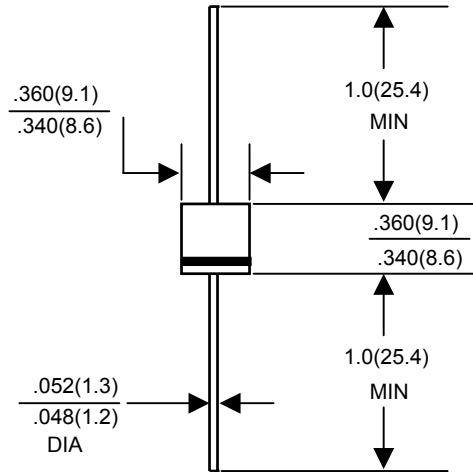
Features

- Metal silicon rectifie,majority carrier conduction
- Guard ring for transient protection
- Low power loss,high efficiency
- High current capability .low VF
- High surge capacity
- Plastic package has UL flammability classification 94 V-0
- For use low voltage,high frequency inverters,free wheeling,and polarity protection applications

Mechanical Data

- Cases: JEDEC R-6 molded plastic
- Polarity:Color band cenotes cathode
- Weigh:0.07ounces 2.1grams
- Mounting position:Any

R-6



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.
 Single phase,half wave,60Hz,resistive or inductive load.
 For capacitive load, derate current by 20%

Type Number		PVS1545	UNITS
Maximum Repetitive Peak Reverse Voltage	VRRM	45	V
Maximum RMS Voltage	VRMS	31.5	V
Maximum DC Blocking Voltage	VDC	45	V
Maximum Average Forward Rectified Current See Fig. 1	IF(AV)	15.0	A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	IFSM	360	A
Peak Forward Voltage @ 15.0A DC(Note1)	VF	0.5	V
Maximun DC Reverse Current @ TA = 25 °C at Rated DC Blocking Voltage @ TA = 100°C	IR	0.5 20	mA
Typical Thermal Resistance (Note 2)	RθJA	2	°C/W
Junction temperature-sperrschichttemperature at reduced reverse voltage VR≤80% VRRM bei reduzierter sperrspannung VR≤50% VRRM in DC forward roode-bei GL eichstrom-Durchahalss	TJ	-50 TO +150 ≤175 ≤200	°C
Storage Temperature Range	TSTG	-50 TO +150	°C

- NOTES: 1. 300us Pulse Width.2% Dudy Cyote.
 2. Thermal Resistance Junction to Case.

RATING AND CHARACTERISTIC CURVES

PVS1545



FIG.1-FORWARD CURRENT DERATING CURVE

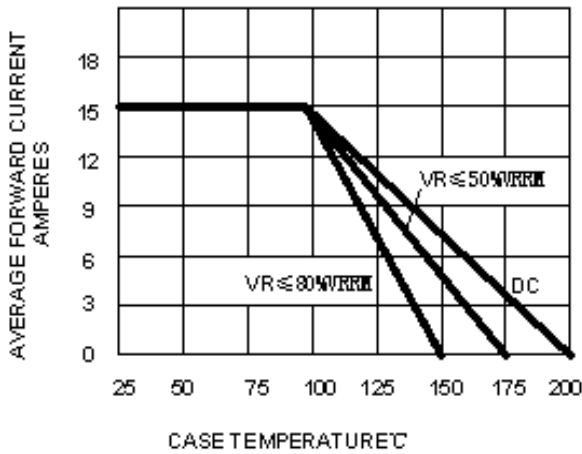


FIG.2-TYPICAL FORWARD CHARACTERISTICS

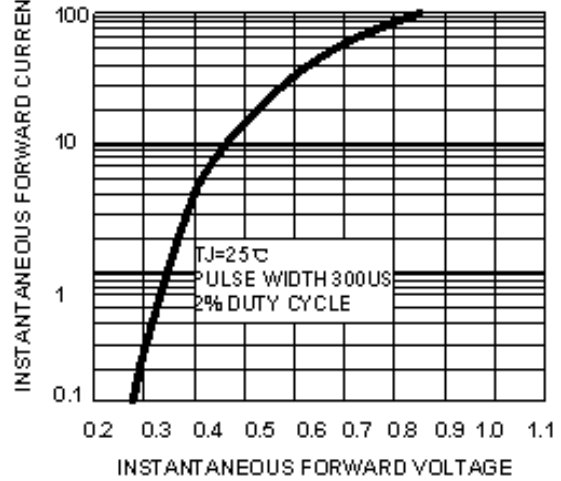


FIG.3-TYPICAL REVERSE CHARACTERISTICS

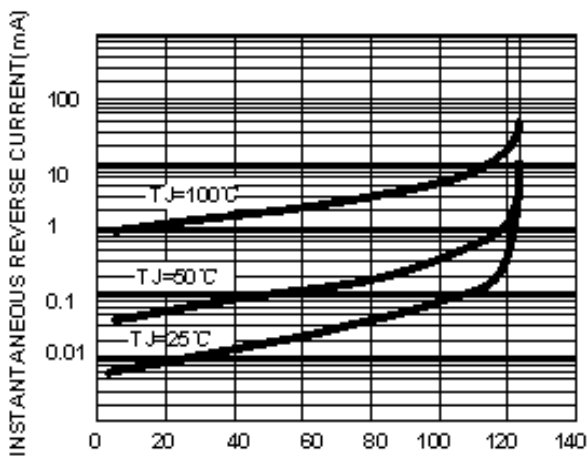


FIG.4-MAXIMUM NON-REPETITIVE SURGE

