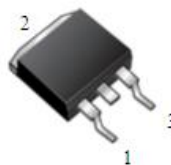# PS40U150BCT&PS40U150HCT

40.0AMPS. SCHOTTKY BARRIER RECTIFIERS

FEATURE

. High current capability

. Ultra low forward voltage drop

. Low power loss, high efficiency

. High surge capability

. High temperature soldering guaranteed
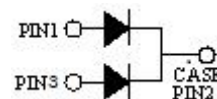
  260°C /10seconds, 0.25"(6.35mm)from case.

TO-263
PS40U150BCT

TO-262
PS40U150HCT

MECHANICAL DATA

. Case: Molded with UL-94 Class V-0 recognized

  Flame Retardant Epoxy

. Mounting position: any

Single phase, half wave, 60Hz,resistive or inductive load.

For capacitive load, derate current by 20%

MAXIMUM RATINGS (T$_C$=25℃ unless otherwise noted)

Parameter	Symbol	PS40U150BCT&PS40U150HCT	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	150	V
Maximum RMS Voltage	V_{RMS}	105	V
Maximum DC blocking Voltage	V_{DC}	150	V
Maximum Average Forward Rectified Current _Per Leg_ at T$_C$ =100°C _Total device_	$I_{F(AV)}$	20.0 / 40.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method) _Per Leg_	I_{FSM}	200.0	A
Typical Junction Capacitance (Note 1)	C_J	420	pF
Operation Junction Temperature and Storage Temperature	T_J, T_{STG}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS-(per leg) (T$_A$=25℃ unless otherwise noted)

Parameter	Symbol	Test conditions		Typ	Max	Units
Forward voltage drop	V_F	T$_J$=25°C	I$_F$=3A	0.60	---	V
			I$_F$=5A	0.68	---	
			I$_F$=20A	0.85	0.95	
		T$_J$=125°C	I$_F$=3A	0.50	---	
			I$_F$=5A	0.54	---	
			I$_F$=20A	0.70	0.85	
Reverse leakage current	I_R	T$_J$=25°C	V$_R$=150V	---	100	μA
		T$_J$=125°C	V$_R$=150V	---	15	mA

THERMAL CHARACTERISTICS(T$_C$=25℃ unless otherwise noted)

Parameter	Symbol	PS40U150BCT	PS40U150HCT	Units
Typical Thermal Resistance (Note 2)	$R_{(JC)}$	2.0	2.0	°C /W

Notes:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc

2. Thermal Resistance from Junction to Case

RATING AND CHARACTERISTIC CURVES

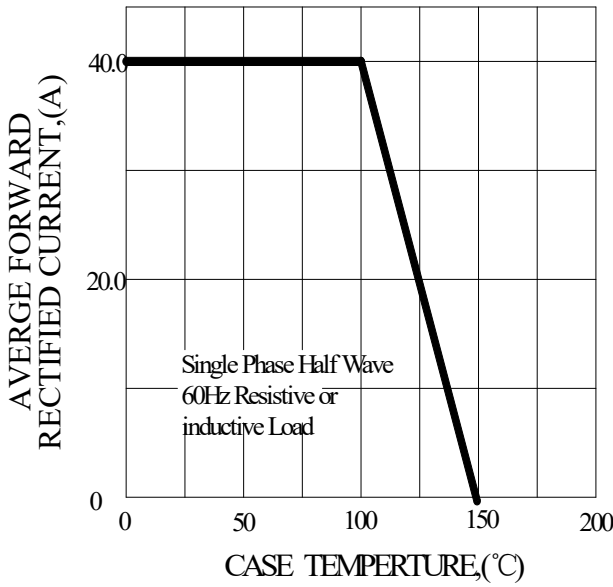### FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

Single Phase Half Wave 60Hz Resistive or inductive Load
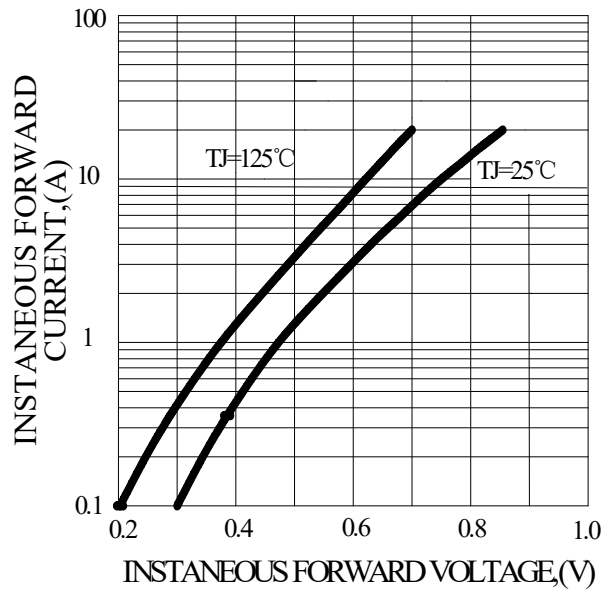
FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

FIG.3-MAXIMUN NON-REPETITIVE FORWARD SURGE CURRENT
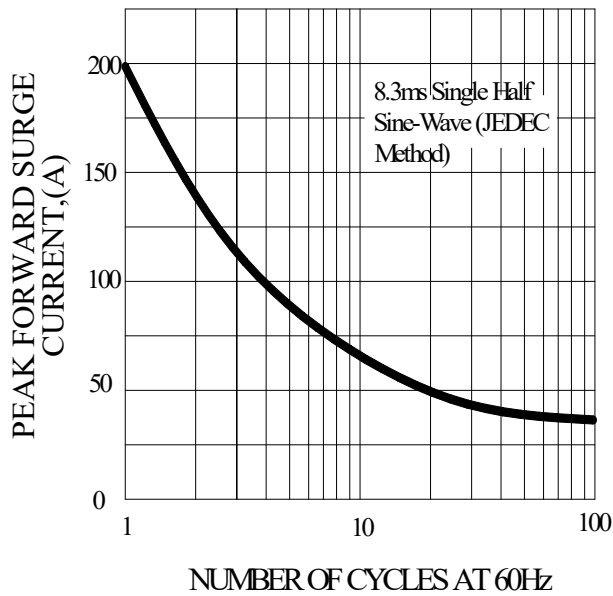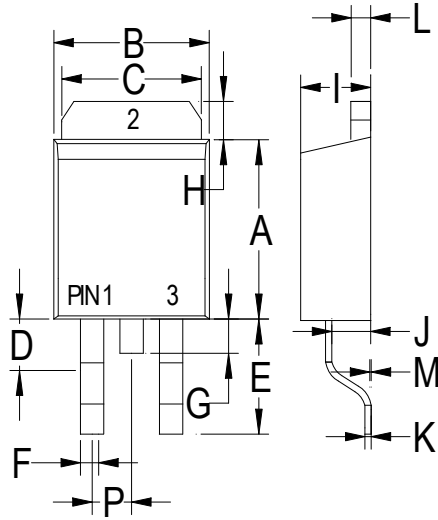

8.3ms Single Half Sine-Wave (JEDEC Method)

FIG.4-TYPICAL REVERSE CHARACTERISTICS
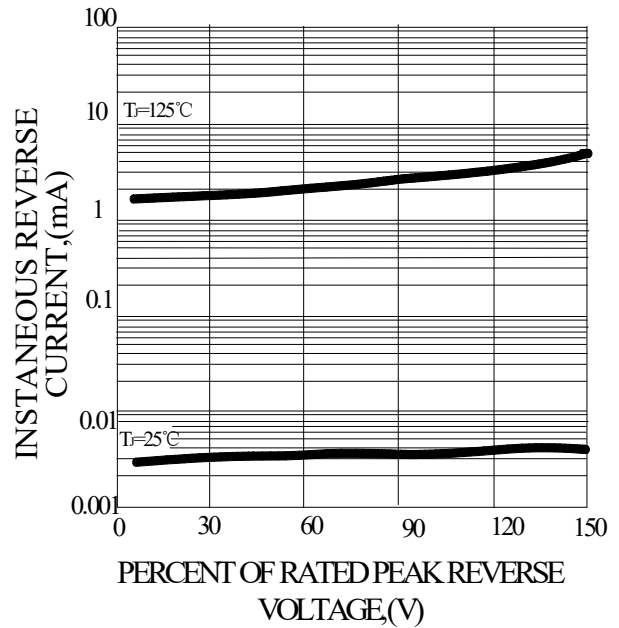
PACKAGE OUTLINE DIMENSIONS

TO-263
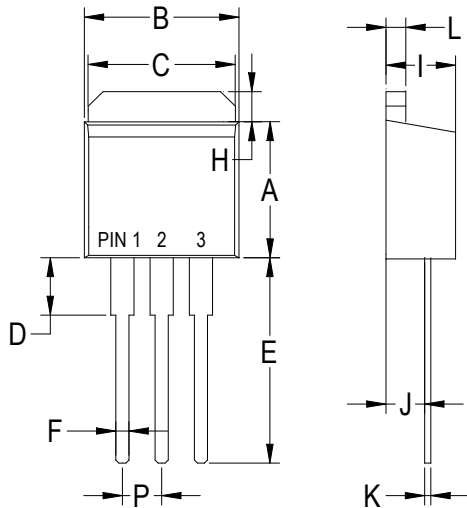

TO-263		
Dim	Min	Max
A	.323(8.20)	.348(8.85)
B	.394(10.0)	.413(10.5)
C	.394(10.0)	.402(10.2)
D	.077(1.95)	.100(2.55)
E	.204(5.17)	.227(5.77)
F	.027(0.68)	.037(0.94)
G	--	.067(1.70)
H	.046(1.17)	.053(1.34)
I	.175(4.44)	.191(4.86)
J	.100(2.54)	.110(2.79)
K	.014(0.35)	.025(0.64)
L	.047(1.20)	.055(1.40)
M	.000(0.00)	.010(0.25)
P	.095(2.41)	.105(2.67)

Dimensions in inches and (millimeters)

TO-262

TO-262		
Dim	Min	Max
A	.323(8.20)	.348(8.85)
B	.394(10.0)	.413(10.5)
C	.394(10.0)	.402(10.2)
D	.140(3.56)	.160(4.06)
E	.510(13.0)	.560(14.3)
F	.027(0.68)	.037(0.94)
H	.046(1.17)	.053(1.34)
I	.175(4.44)	.185(4.86)
J	.100(2.54)	.110(2.79)
K	.014(0.35)	.025(0.64)
L	.045(1.14)	.055(1.40)
P	.095(2.41)	.105(2.67)

Dimensions in inches and (millimeters)

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