



JSPS120150ACT

150V 120A Schottky Barrier Rectifier

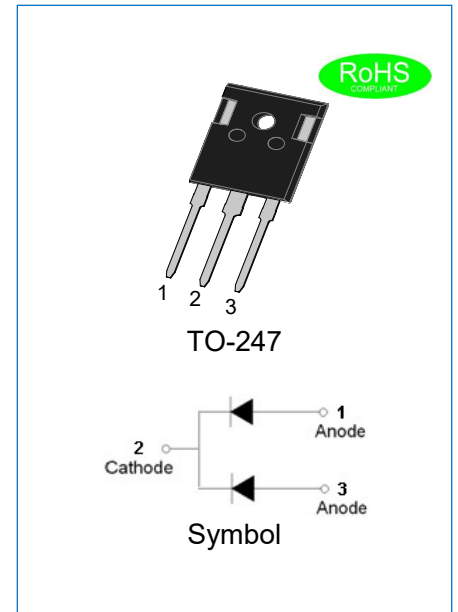
Rev.2.4

FEATURE

- ◇ 175°C T_j operation
- ◇ Low forward voltage drop
- ◇ High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- ◇ High frequency operation
- ◇ Guard ring for enhanced ruggedness and long term reliability
- ◇ This is a Pb-Free device

APPLICATION

- ◇ Switching power supply
- ◇ Converters
- ◇ Free-wheeling diodes
- ◇ Reverse battery protection
- ◇ Center tap configuration



ABSOLUTE MAXIMUM RATING (Rating at 25°C ambient temperature unless otherwise specified.)

Parameter	Symbol	JSPS120150ACT	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	150	V
Maximum RMS voltage	V _{RMS}	105	V
Maximum DC blocking voltage	V _{DC}	150	V
Average forward current	I _{F(AV)}	60(Per leg)	A
		120(Per device)	
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	275	A
Operating junction and storage temperature range	T _j , T _{stg}	-55 to +175	°C

ELECTRICAL CHARACTERISTICS (Rating at 25°C ambient temperature unless otherwise specified.)

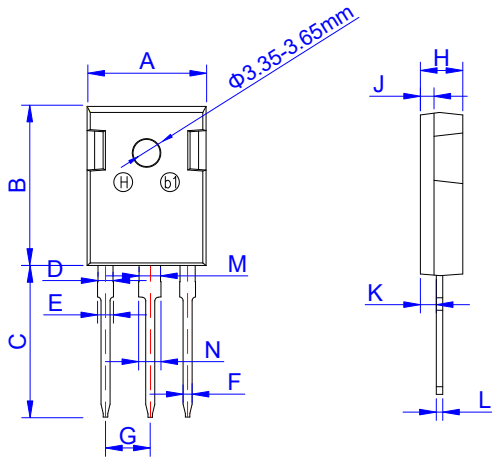
Parameter	Symbol	Min	Typ	Max	Unit
Forward voltage	I _F =60A		0.84	0.95	V
Reverse current at rated DC blocking voltage	T _A =25°C		0.006	0.1	mA
	T _A =100°C		0.4	25	



THERMAL RESISTANCES

Symbol	Parameter	JSPS120150ACT	Unit
$R_{th(j-c)}$	Thermal resistance from junction to case	0.4	$^{\circ}C/W$

PACKAGE MECHANICAL DATA



TO-247

Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	15.50	15.80	16.10	0.610	0.622	0.634
B	20.80	21.00	21.20	0.819	0.827	0.835
C	19.70	20.00	20.30	0.776	0.787	0.799
D	1.80	2.00	2.20	0.071	0.079	0.087
E	1.90	2.10	2.30	0.075	0.083	0.091
F	1.00	1.20	1.40	0.039	0.047	0.055
G	5.25		5.65	0.207		0.222
H	4.80	5.00	5.20	0.189	0.197	0.205
J	1.90	2.00	2.10	0.075	0.079	0.083
K	2.20	2.35	2.50	0.087	0.093	0.098
L	0.41	0.60	0.79	0.016	0.024	0.031
M	2.80	3.00	3.20	0.110	0.118	0.126
N	2.90	3.10	3.30	0.114	0.122	0.130

PACKAGE INFORMATION-TO-247

OUTLINE	UNIT WEIGHT (g/PCS) TYP	TUBE (PCS)	PER CARTON (PCS)
TUBE	5.6	30	2,250



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