

# JIEJIE MICROELECTRONICS CO., LTD.

## JSPS80150ACT

## 150V 80A Schottky Barrier Rectifier

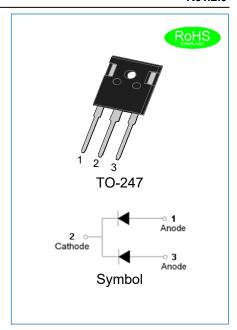
**Rev.2.9** 

#### **FEATURE**

- ♦ 175°C Tj operation
- ♦ Low forward voltage drop
- High purity, high temperature expoxy encapsulation for enhanced mechanical strength and moisture resistance
- ♦ High frequency operation
- ♦ Guard ring for enhanced ruggedness and long term reliability

#### **APPLICATION**

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



## ABSOLUTE MAXIMUM RATING(Rating at 25℃ ambient temperature unless otherwise specified.)

Parameter	Symbol	JSPS80150ACT	Unit
Maximum repetitive peak reverse voltage		150	V
Maximum RMS voltage	VRMS	105	V
Maximum DC blocking voltage	V <sub>DC</sub>	150	V
Average ferward current		40(per leg)	А
Average forward current	l <sub>F(AV)</sub>		
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load	Ігѕм	275	А
Operating junction and storage temperature range		-55 to +175	$^{\circ}$

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

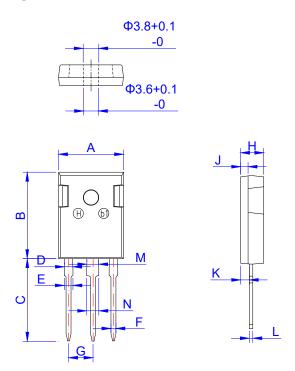
Parameter		Symbol	Min	Тур	Max	Unit
Forward voltage	I <sub>F</sub> =40A	VF		0.84	0.90	V
Doverno gurrent	V <sub>R</sub> =150V,T <sub>A</sub> =25℃	I <sub>R</sub>		0.001	0.1	A
Reverse current	V <sub>R</sub> =150V,T <sub>A</sub> =100℃			0.35	20	mA



## THERMAL RESISTANCES

Symbol	Parameter	JSPS80150ACT	Unit
R <sub>th(j-c)</sub>	Thermal resistance from junction to case	0.4	°C/W

## PACKAGE MECHANICAL DATA



	Dimensions					
Ref.	Millimeters		Inches			
	Min.	Тур.	Max.	Min.	Тур.	Max.
Α	15.50	15.80	16.10	0.610	0.622	0.634
В	20.80	21.00	21.20	0.819	0.827	0.835
С	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
Н	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
М	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

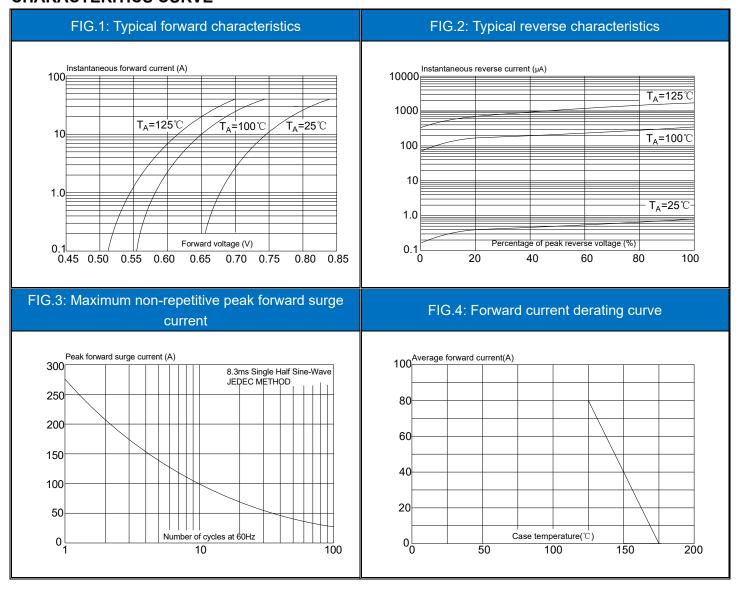
TO-247J

# **PACKAGE INFORMATION-TO-247**

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



## **CHARACTERITICS CURVE**





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