

# JIEJIE MICROELECTRONICS CO., LTD.

## JSPE10100ACT

## 10A Schottky Barrier Rectifier

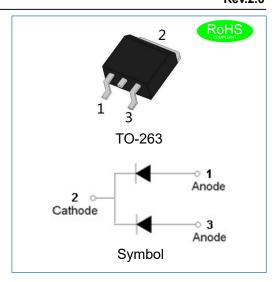
Rev.2.6

#### **DESCRIPTION**

- Plastic package has underwriters laboratories flammability classification 94V-0
- ♦ For surface mounted applications in order to optimize board space
- ♦ Lead free in compliance with EU RoHS 2011/65/EU directive
- ♦ Low forward voltage drop
- ♦ Low power losses, high efficiency operation
- ♦ High current capability and surge capability



♦ Terminals: Solder plated, solderable per J-STD-002



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

Parameter	Symbol	JSPE10100ACT	Unit
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	100	٧
Maximum RMS voltage	V <sub>RMS</sub>	70	٧
Maximum DC blocking voltage	V <sub>DC</sub>	100	٧
Average forward current	I <sub>F(AV)</sub>	10	Α
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	100	Α
Operating junction temperature range	T <sub>j</sub>	-55 to +150	J
Storage temperature range	T <sub>stg</sub>	-55 to +150	$^{\circ}$

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

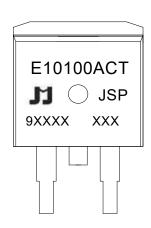
Parameter			Min	Тур	Max	Unit	
Forward voltage	V <sub>F</sub>	-	-	0.85	V		
Reverse current at rated DC	T <sub>A</sub> =25℃		-	-	0.1	A	
blocking voltage	T <sub>A</sub> =100℃	IR	IR	-	-	20	mA
Junction capacitance V <sub>R</sub> =4.0V, f=1MHz		Сл	-	112	-	pF	

## THERMAL RESISTANCES

Symbol	Parameter	JSPE10100ACT	Unit
R <sub>th(j-c)</sub>	Thermal resistances from junction to case	2.5	°C/W



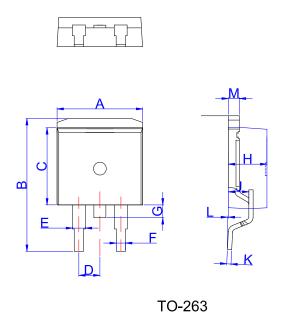
# **MARKING**



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JS	Schottky Barrier Rectifier			
Р	Planar technology			
Е	Package: TO-263			
10	I <sub>F(AV)</sub> =10A			
100	V <sub>RRM</sub> :100V			
Α	Version			
СТ	Common cathode			

9	Year code(8:2018,9:2019,)				
XX	Week code				
XX	Chip code				
XXX	Package lot number				

# PACKAGE MECHANICAL DATA



	Dimensions					
Ref.	Millimeters		Inches			
	Min.	Тур.	Max.	Min.	Тур.	Max.
Α	9.90		10.20	0.390		0.402
В	14.70		15.80	0.579		0.622
С	9.4		9.6	0.37		0.378
D		2.54			0.100	
E	1.20		1.40	0.047		0.055
F	0.75		0.85	0.029		0.033
G			1.75			0.069
Н	4.40		4.70	0.173		0.185
J	2.30		2.70	0.091		0.106
K	0.38		0.55	0.015		0.022
L	0	0.10	0.25	0	0.004	0.010
М	1.25		1.35	0.049		0.053



#### **PACKAGE INFORMATION-TO-263**

OUTLINE	UNIT WEIGHT	TUBE	PER CARTON	
	(g/PCS) TYP	(PCS)	(PCS)	
TUBE	1.514	50	5,000	

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