

JSPE3045ACT 30A Schottky Barrier Rectifier

DESCRIPTION

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

MECHANICAL DATA

- ♦ Case: TO-263 molded plastic
- ♦ Terminals: Solder plated, solderable per J-STD-002

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

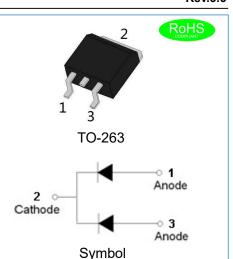
Parameter	Symbol	JSPE3045ACT	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	45	V
Maximum RMS voltage	V _{RMS}	32	V
Maximum DC blocking voltage		45	V
Average forward current		30	А
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	200	А
Operating junction temperature range	Tj	-55 to +125	°C
Storage temperature range	T _{stg}	-55 to +150	°C

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

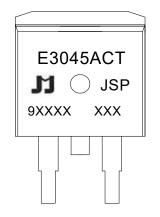
Parameter		Symbol	Min	Тур	Max	Unit
Forward voltage I _F =15A		VF	-	-	0.65	V
Reverse current at rated DC	T _A =25℃		-	-	0.1	mA
blocking voltage	T _A =100℃	IR	-	-	40	
Junction capacitance V _R =4.0V, f=1MHz		CJ	-	800	-	pF

THERMAL RESISTANCES

Symbol	Parameter	JSPE3045ACT	Unit
R _{th(j-c)}	Thermal resistances from junction to case	2.0	°C /W



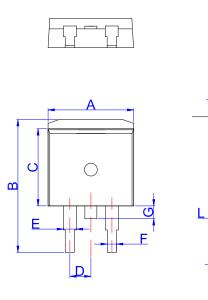
Rev.3.6



JS	Schottky Barrier Rectifier			
Р	Planar technology			
E	Package: TO-263			
30	I _{F(AV)} =30A			
45	V _{RRM} :45V			
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



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	Dimensions					
Ref. Millimeter		rs		Inches		
	Min.	Тур.	Max.	Min.	Тур.	Max.
A	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
К	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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