



JSPF2045ACT-CO

20A Schottky Barrier Rectifier

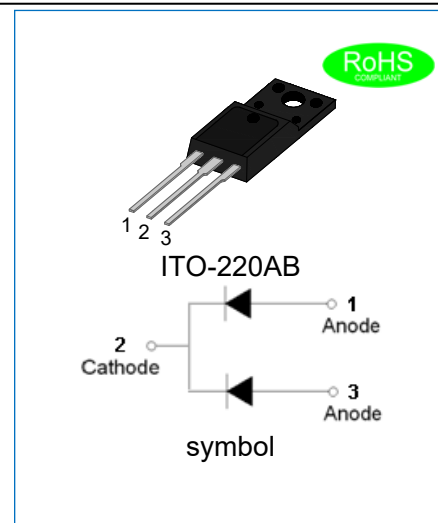
Rev.0.1

DESCRIPTION

- ✧ Plastic package has underwriters laboratories flammability classification 94V-0
- ✧ 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

MECHANICAL DATA

- ✧ Case: ITO-220AB molded plastic
- ✧ Terminals: Solder plated, solderable per J-STD-002



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

Parameter	Symbol	JSPF2045ACT-CO	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	45	V
Maximum RMS voltage	V_{RMS}	32	V
Maximum DC blocking voltage	V_{DC}	45	V
Maximum average forward current	$I_{F(AV)}$	20	A
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	150	A
Operating junction temperature range	T_j	-55 to +150	°C
Storage temperature range	T_{stg}	-55 to +150	°C

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

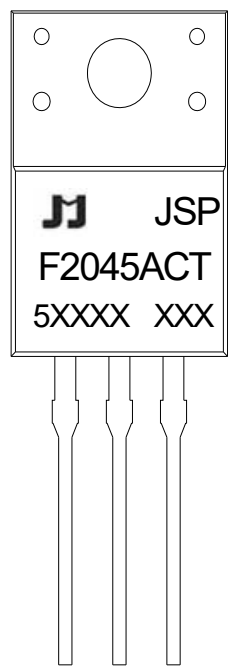
Parameter	Symbol	Min	Typ	Max	Unit
Forward voltage	$I_F=10A$	V_F		0.65	V
Reverse current	$V_R=45V, T_A=25^{\circ}C$	I_R		0.1	mA
	$V_R=45V, T_A=100^{\circ}C$			40	
Junction capacitance	$V_R=4.0V, f=1MHz$	C_J	700		pF

THERMAL RESISTANCES

Symbol	Parameter	JSPF2045ACT-CO	Unit
$R_{th(j-c)}$	Thermal resistance from junction to case	3.0	°C/W



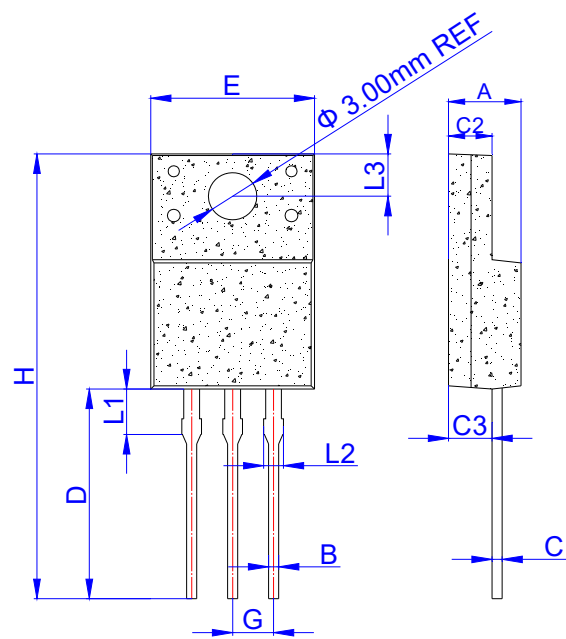
MARKING



JS	Schottky Barrier Rectifier
P	Planar technology
F	Package: ITO-220AB
20	$I_{F(AV)}=20A$
45	$V_{RRM}:45V$
A	Version
CT	Common cathode

5	Year code(4:2024,5:2025,.....)
XX	Week code
XX	Chip code
XXX	Package lot number

PACKAGE MECHANICAL DATA



ITO-220AB

Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	4.30	4.50	4.70	0.169	0.177	0.185
B	0.50	0.625	0.75	0.020	0.025	0.030
C	0.50	0.625	0.75	0.020	0.025	0.030
C2	2.50	2.70	2.90	0.098	0.106	0.114
C3	2.50	2.70	2.90	0.098	0.106	0.114
D	13.08	13.38	13.68	0.515	0.527	0.539
E	9.96	10.16	10.36	0.392	0.400	0.408
G	2.54REF			0.100REF		
H	28.08	28.38	28.68	1.106	1.117	1.129
L1	2.70	2.90	3.10	0.106	0.114	0.122
L2	1.10	1.225	1.35	0.043	0.048	0.053
L3	2.70REF			0.106REF		

**PACKAGE INFORMATION-ITO-220AB**

OUTLINE	UNIT WEIGHT (g/PCS) typ.	TUBE (PCS)	PER CARTON (PCS)
TUBE	1.67	50	5,000

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