



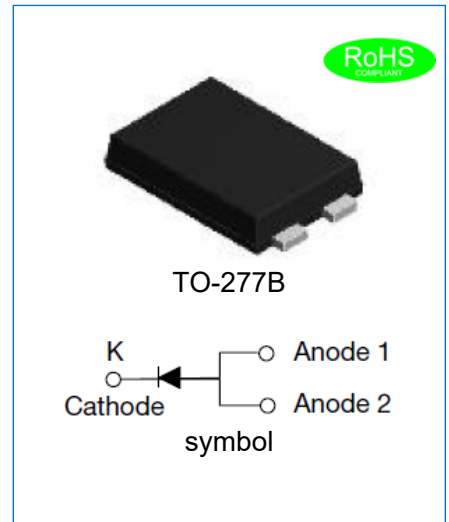
## JSTV10L100A

### 10A Schottky Barrier Rectifier

Rev.1.1

#### DESCRIPTION

- ✧ Plastic package has underwriters laboratories flammability classification 94V-0
- ✧ Lead free in compliance with EU RoHS 2011/65/EU directive
- ✧ Trench MOS Schottky barrier diode
- ✧ Low forward voltage drop
- ✧ High temperature soldering guaranteed: 260°C/10 seconds
- ✧ Halogen-free according to IEC 61249-2-21 definition



#### MECHANICAL DATA

- ✧ Case: TO-277B molded plastic
- ✧ Terminals: Solder plated, solderable per J-STD-002

#### ABSOLUTE MAXIMUM RATING

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

Parameter	Symbol	JSTV10L100A	Unit
Maximum repetitive peak reverse voltage	$V_{RRM}$	100	V
Maximum RMS voltage	$V_{RMS}$	70	V
Maximum DC blocking voltage	$V_{DC}$	100	V
Maximum average forward current	$I_{F(AV)}$	10	A
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	170	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	$I_F=10A$		$T_A=25^\circ C$	0.68	0.75	V
			$T_A=125^\circ C$	0.61	0.65	
Reverse voltage leakage current	$V_R=100V$		$T_A=25^\circ C$	15	50	$\mu A$
			$T_A=125^\circ C$	20	60	mA
Junction capacitance	$V_R=4.0V, f=1MHz$		800		pF	

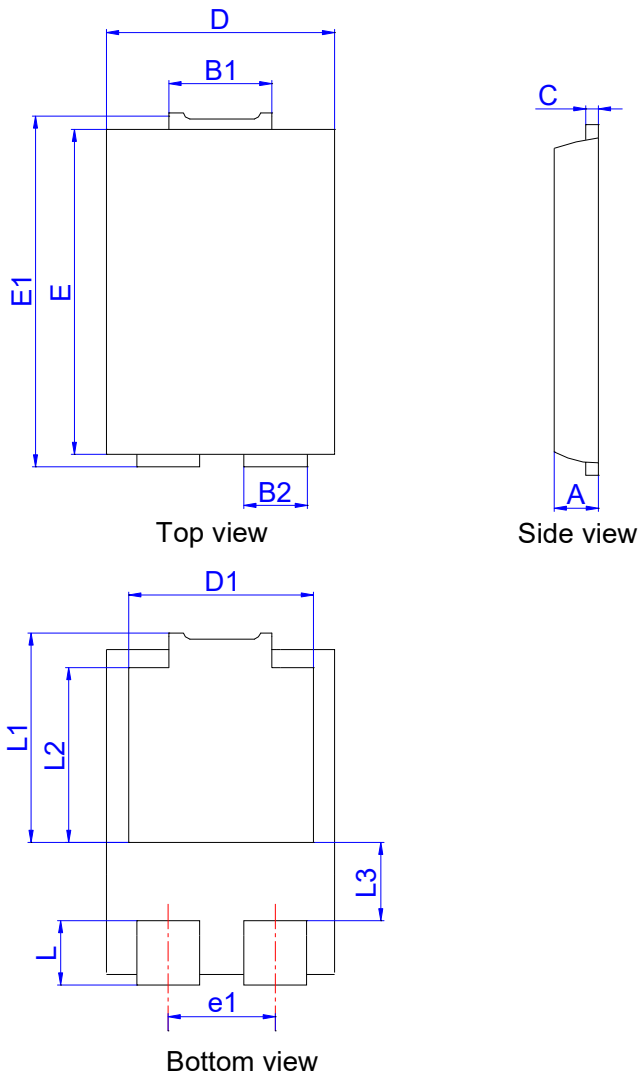
**THERMAL RESISTANCES**

Symbol	Parameter	JSTV10L100A	Unit
$R_{th(j-a)}$	Thermal resistance from junction to ambient	35	°C/W

**MARKING**

JS	Jiejie Schottky
T	Trench

V	Package: TO-277B
10	$I_{F(AV)}=10A$
L	Low forward voltage
100	$V_{RRM}:100V$
A	Version A

**PACKAGE MECHANICAL DATA**

TO-277B

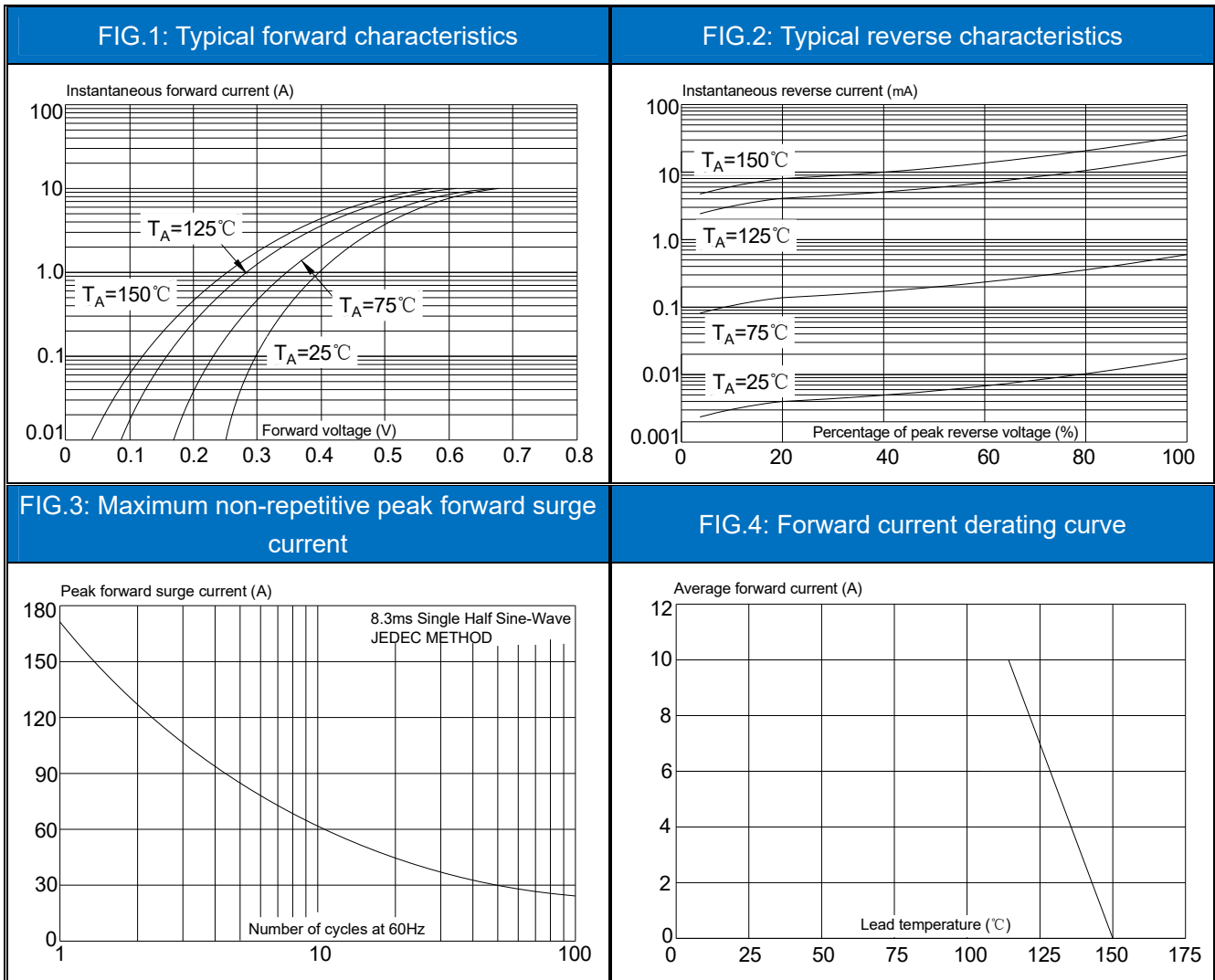
Symbol	Millimeters		Inches	
	Min	Max	Min	Max
E1	6.40	6.60	0.252	0.260
E	5.60	5.80	0.220	0.228
D	4.10	4.30	0.161	0.169
B1	1.70	1.90	0.067	0.075
B2	0.80	1.00	0.031	0.039
A	1.05	1.20	0.041	0.047
C	0.30	0.40	0.012	0.016
L	0.85	1.10	0.033	0.043
L1	4.20	4.40	0.165	0.173
L2	3.52Typ.		0.139Typ.	
L3	1.10	1.40	0.043	0.055
D1	3.00	3.30	0.118	0.130
e1	1.86Typ.		0.073Typ.	

**PACKAGE INFORMATION-TO-277B**

PART No.	REEL (PCS)	PER CARTON (PCS)	DESCRIPTION
JSTV10L100A	5,000	80,000	13 inch reel pack



### CHARACTERISTICS CURVE






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