



# EBRT6E200T



## Excellent Schottky Barrier Rectifiers



TO-277

### Features

- Schottky barrier diodes
- Low forward voltage drop
- Low leakage current
- Moisture sensitivity: level 1, per J-STD-020
- Solder dip 260 °C, 10 s
- Low profile
- Heatsink design

### Ordering Information

Part No.	Package	Packing
EBRT6E200T	TO-277	5000 / Reel

### Device P/N

Part Number	Remark
EBRT6E200T	General
EBRT6E200T-H	Halogen Free

### Primary Characteristics

$I_F$	6	A
$V_{RRM}$	200	V
$I_{FSM}$	80	A
$V_F$	0.84	V
$T_J \text{ max}$	150	°C

### Mechanical Data

- Case: TO-277
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Terminals: Lead Free Plating (Tin Finish). Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.096 grams (approximate)

### Maximum Ratings (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	EBRT6E200T	UNIT
Maximum repetitive peak reverse voltage	$V_{RRM}$	200	V
Maximum RMS voltage	$V_{RMS}$	140	V
Maximum DC blocking voltage	$V_{DC}$	200	V
Maximum average forward rectified current	$I_F$	6	A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	80	A
Maximum Instantaneous Forward Voltage IF=2A @ 25°C IF=6A @ 25°C	$V_F$	0.66 0.84	V
Maximum DC Reverse Current @ TA=25°C at Rated DC Blocking Voltage @ TA=100°C	$I_R$	0.2 10	uA
Typical Junction Capacitance(NOTE1)	$C_j$	720	pF
Typical Thermal Resistance	$R_{\theta JC}$	20	°C/W
Operating Temperature Range	$T_J$	-55 to +150	°C
Storage Temperature Range	$T_{STG}$	-55 to +150	°C
Marking Code		T6E200T、6E200T	

### NOTES:

1. Measured at 1.0MHZ and applied reverse voltage of 4.0V DC



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### Rating and Characteristics Curves

FIG. 1-Typical Forward Current Derating Curve

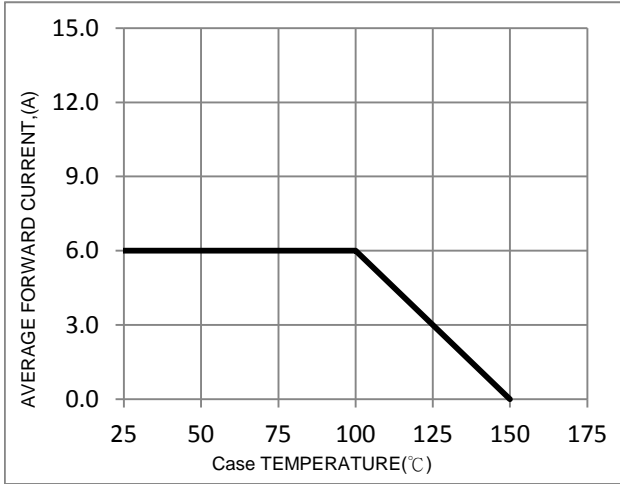


FIG. 2-Typical Forward Characteristics

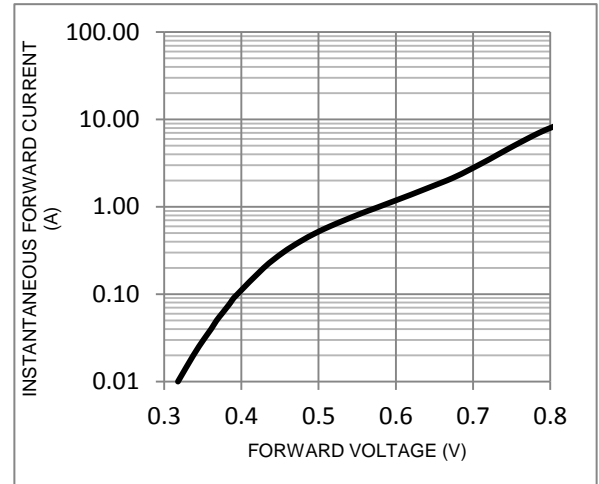


FIG. 3-Maximum Non-Repetitive Forward Surge Current

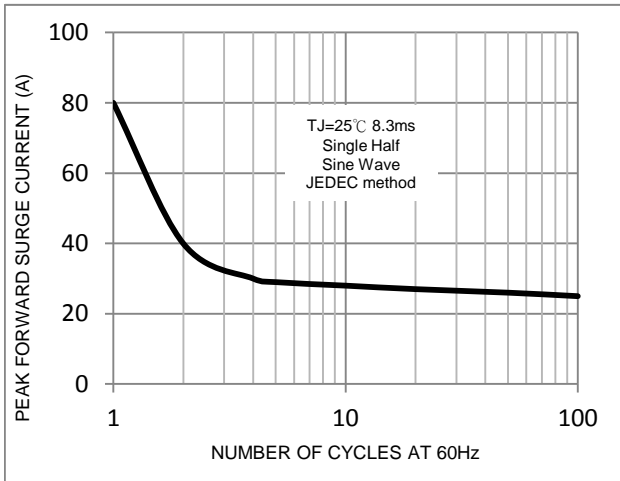


FIG. 4-Typical Reverse Characteristics

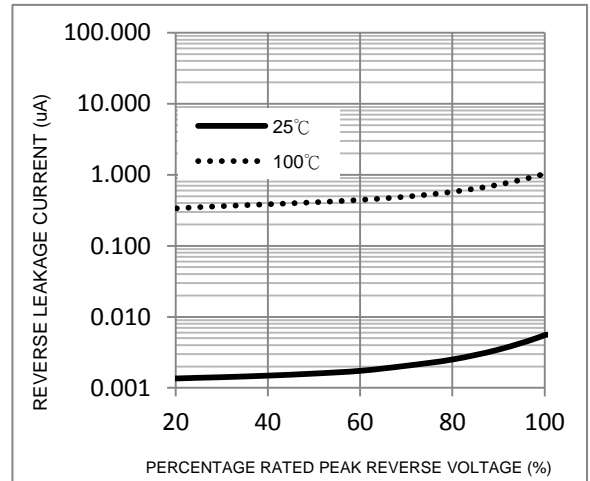
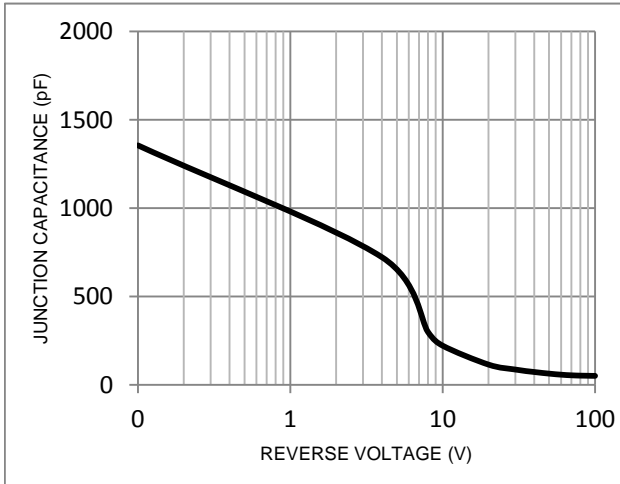


FIG. 5-Typical Junction Capacitance



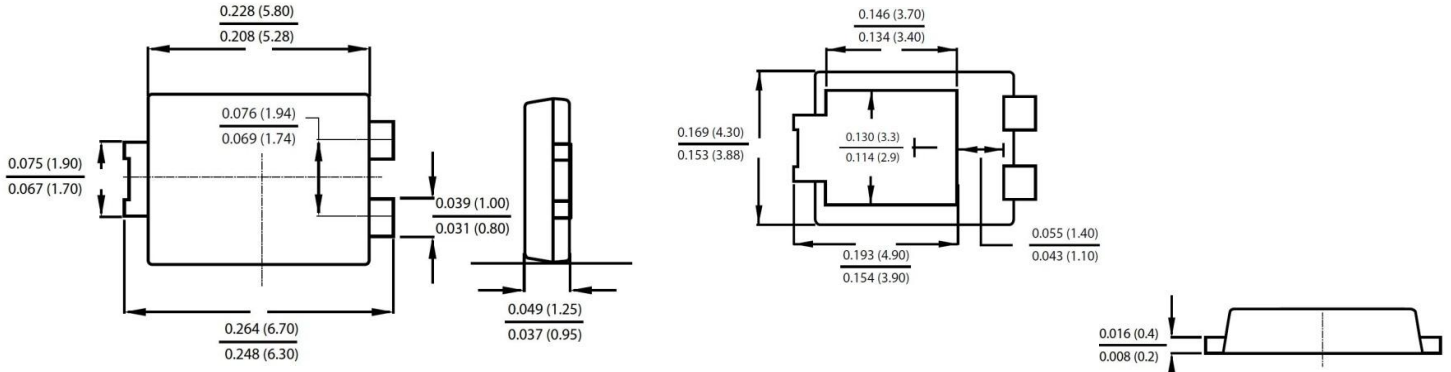


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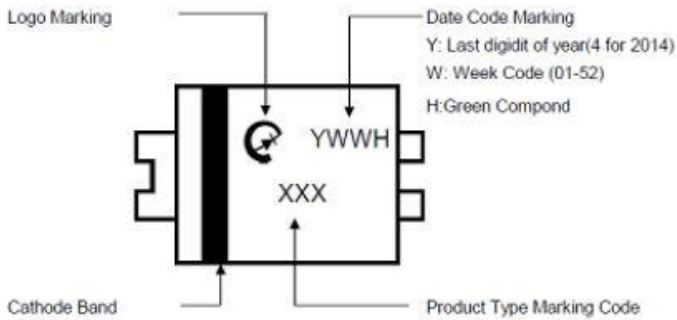
### Package Outline Dimensions



### TO-277

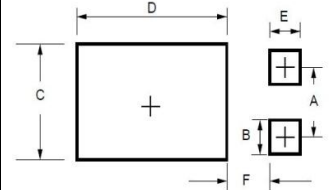
Dimensions in inches and (millimeters)

### Marking Information



### Suggested Pad Layout

Dimension	Outline	TO-277
A		1.94
B		1.00
C		3.20
D		4.90
E		1.00
F		1.40



### Tape & Reel Specification

ITEM	SYMBOL	TO-277 (mm)
Carrier width	A	4.38(max)
Carrier length	B	6.9(MAX)
Carrier depth	C	1.4±0.1
Sprocket hole	d	1.50±0.1
Reel outside diameter	D	330±2.0
Feed hole diameter	D0	13.0±0.2
Reel inner diameter	D1	100 (min.)
Sprocket hole position	E	1.75±0.1
Punch hole position	F	7.5±0.05
Sprocket hole pitch	P	8.0±0.1
Sprocket hole pitch	Po	4.0±0.1
Embossment center	P1	2.0±0.10
Overall tape thickness	T	0.6 (max)
Tape width	W	16.0±0.3
Reel width	W2	20(max)
Reel width	W1	16(max)

