



EBRT20L80T



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

Primary Characteristics

I_F	20	A
V_{RRM}	80	V
I_{FSM}	250	A
V_F	0.62	V
T_J 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)

Ordering Information

Part No.	Remark	Package	Packing
EBRT20L80T	General	TO-277	5000 / Reel
EBRT20L80T -H	Halogen Free		

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

PARAMETER	SYMBOL	EBRT20L80T	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	80	V
Maximum RMS voltage	V_{RMS}	56	V
Maximum DC blocking voltage	V_{DC}	80	V
Maximum average forward rectified current	I_F	20	A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	250	A
Maximum Instantaneous Forward Voltage IF=3A @ 25°C IF=20A @ 25°C	V_F	0.40 Typ. 0.62 Max.	V
Maximum DC Reverse Current @ TA=25°C at Rated DC Blocking Voltage @ TA=100°C	I_R	0.2 20	mA
Typical Junction Capacitance(NOTE1)	C_j	1330	pF
Typical Thermal Resistance	$R_{\theta JC}$	5	°C/W
Operating Temperature Range	T_J	-55 to +150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C
Marking Code		20L80T 、 T20L80T	

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

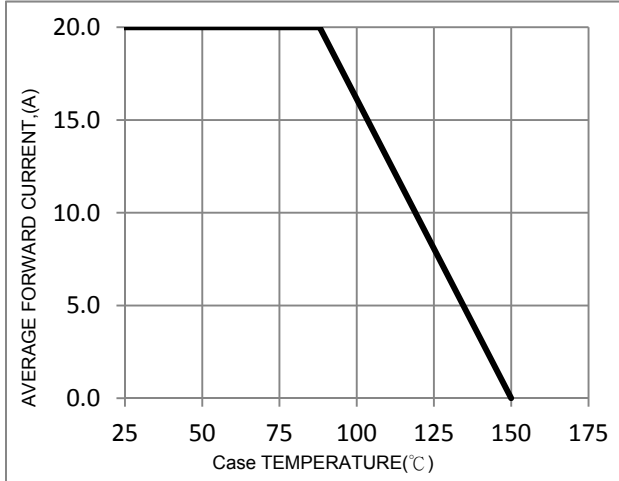


FIG. 2-Typical Forward Characteristics

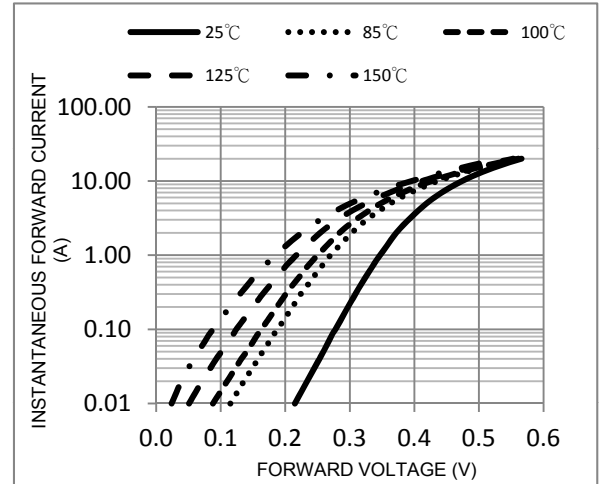


FIG. 3-Maximum Non-Repetitive Forward Surge Current

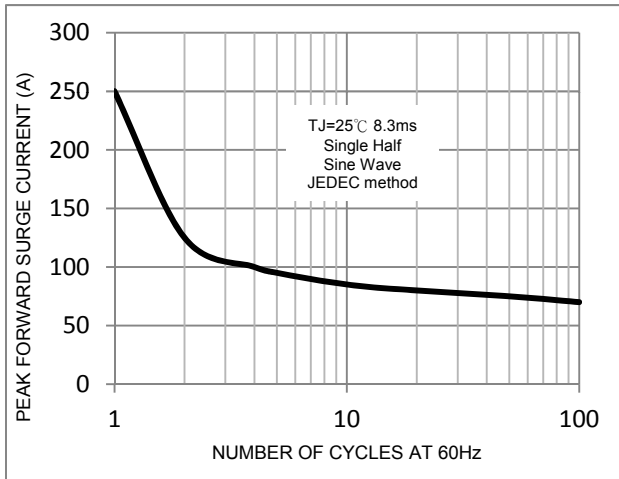


FIG. 4-Typical Reverse Characteristics

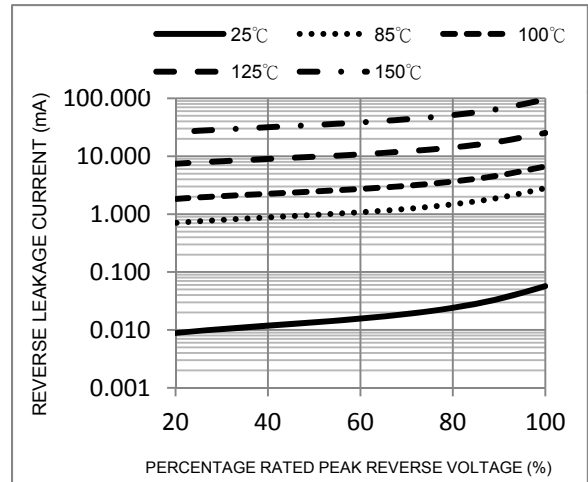
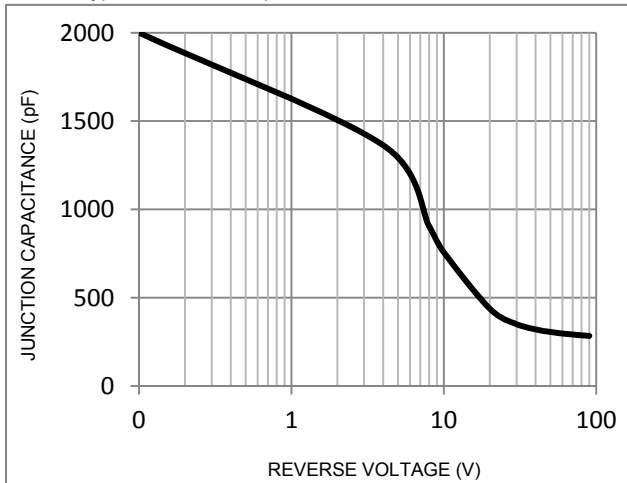


FIG. 5-Typical Junction Capacitance



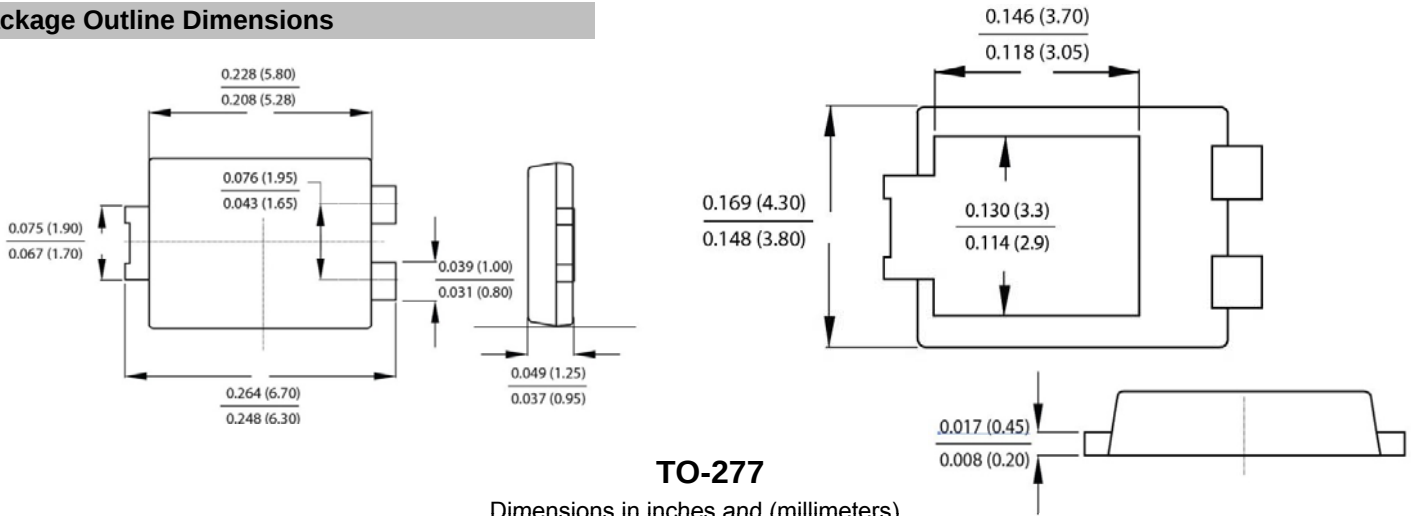


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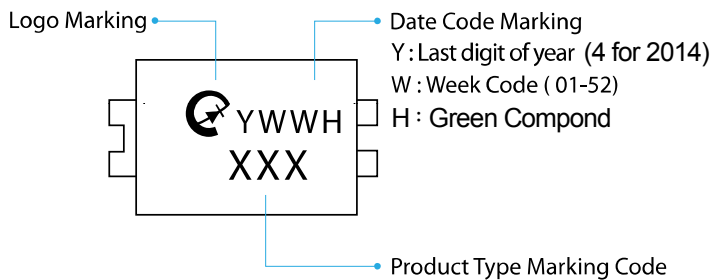


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Package Outline Dimensions

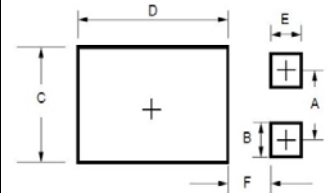


Marking Information



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	P0	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)

