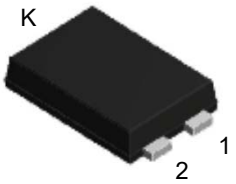
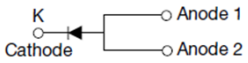
EBRT20M60T

Excellent Schottky Barrier Rectifiers





TO-277

Primary Characteristics

I_F	20	A
V_{RRM}	60	V
I_{FSM}	200	A
V_F	IF=3A @ 125°C (0.22 Typ.)	V
T_J max	150	°C

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

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
- Weight：0.096 grams (approximate)

Ordering Information

Part No.	Remark	Package	Packing
EBRT20M60T	RoHS Compliant	TO-277	5000 / Reel
EBRT20M60T-H	Halogen Free		

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

Parameter	Symbol	EBRT20M60T	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	60	V
Maximum RMS voltage	V_{RMS}	42	V
Maximum DC blocking voltage	V_{DC}	60	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}	200	A
Maximum Instantaneous Forward Voltage IF=3A @ 25°C IF=3A @ 125°C IF=20A @ 25°C IF=20A @125°C	V_F	 0.34 Typ. 0.22 Typ. 0.56 Max. 0.44 Typ.	V
Maximum DC Reverse Current @ TA=25°C at Rated DC Blocking Voltage @ TA=100°C	I_R	0.5 100	mA
Typical Junction Capacitance (NOTE1)	C_J	1520	pF
Typical Thermal Resistance	$R_{\theta JC}$	10	°C/W
Operating Temperature Range	T_J	-55 to +150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C
Marking Code		T20M60T、20M60T	

NOTES：

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

Rating and Characteristics Curves

FIG. 1-Typical Forward Current Derating Curve

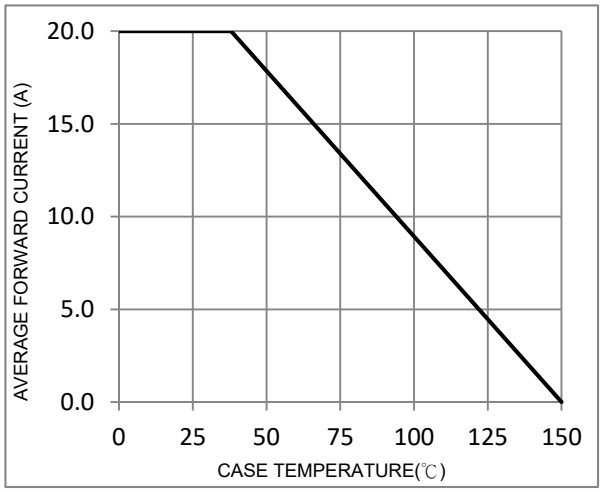


FIG. 2-Typical Forward Characteristics

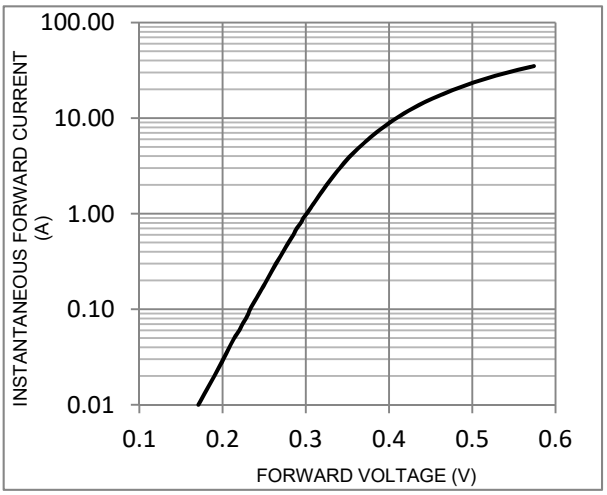


FIG. 3-Maximum Non-Repetitive Forward Surge Current

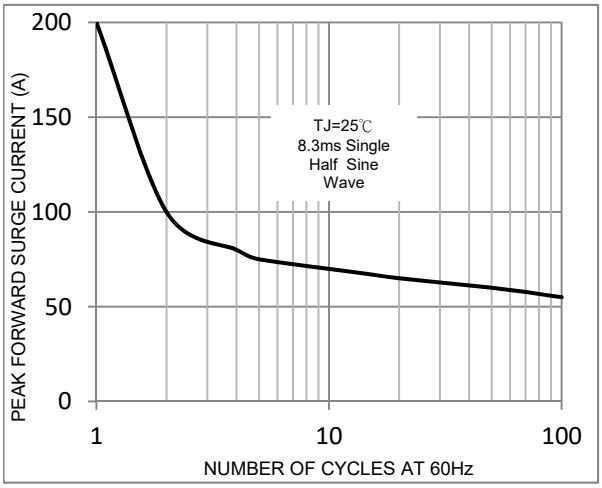


FIG. 4-Typical Reverse Characteristics

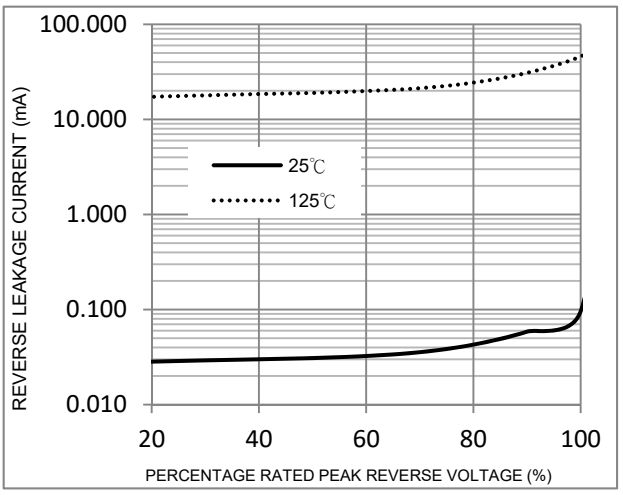
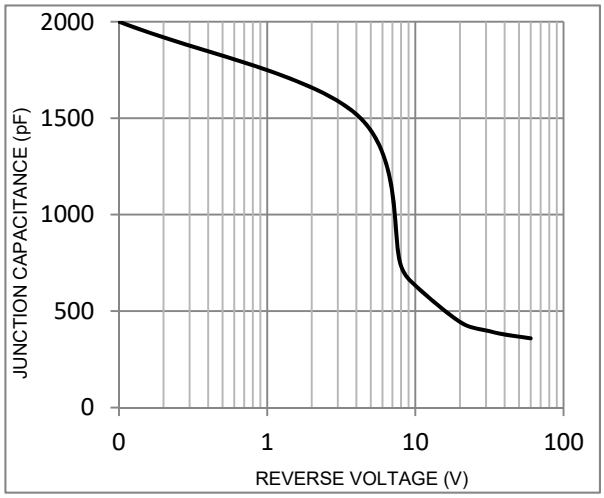


FIG. 5-Typical Junction Capacitance



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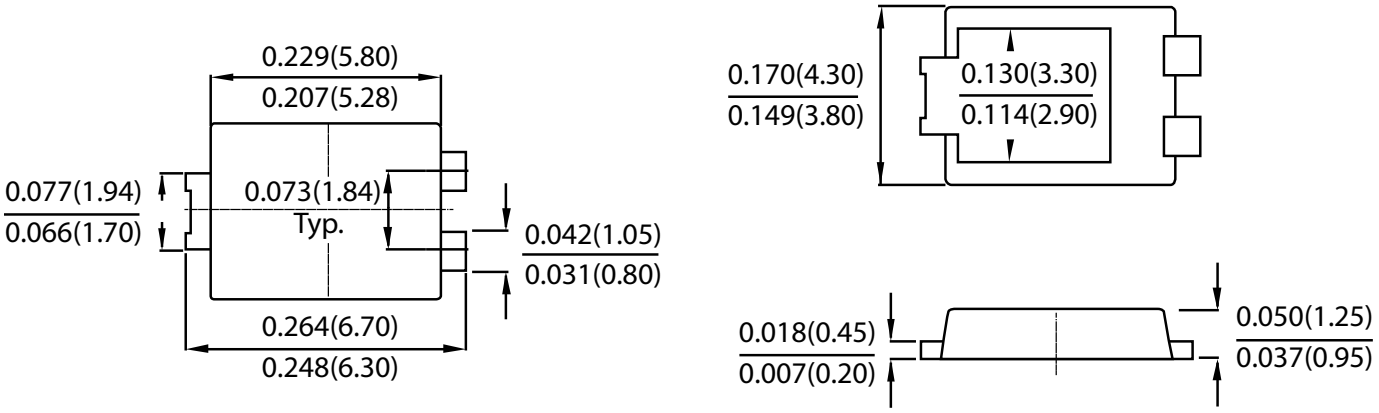
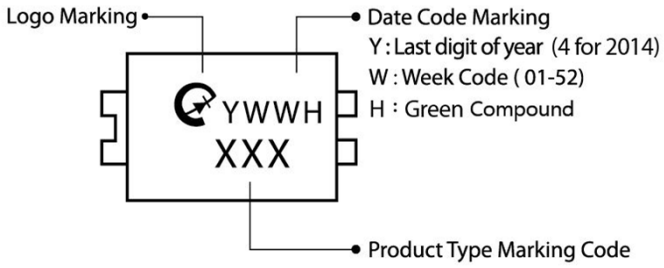
Package Outline Dimensions



TO-277

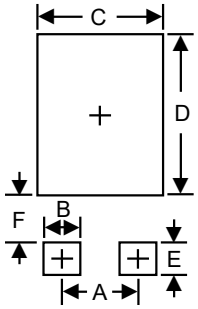
Dimensions in inches and (millimeters)

Marking Information



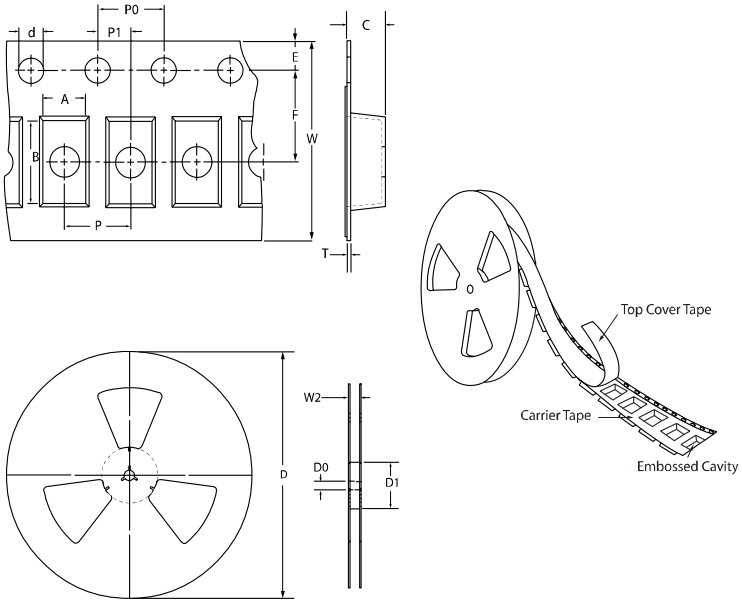
Suggested Pad Layout

Dimension \ Outline	TO-277
A	1.94
B	1.40
C	3.40
D	4.90
E	1.40
F	1.40



Tape & Reel Specification

Item	Symbol	TO-277 (mm)
Carrier width	A	4.5 (max)
Carrier length	B	7.1 (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	13.5 ± 1.0
Reel inner diameter	D1	50 (min)
Sprocket hole position	E	1.75 ± 0.1
Punch hole position	F	6.5 ± 1.1
Sprocket hole pitch	P	8.0 ± 0.1
Sprocket hole pitch	P0	4.0 ± 0.1
Embossment center	P1	2.0 ± 0.1
Overall tape thickness	T	0.6 (max)
Tape width	W	14 ± 2.2
Reel width	W2	24.5 (max)



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