



EBRP15E60T



Excellent Schottky Barrier Rectifiers



TO-277

Primary Characteristics

I_F	15	A
V_{RRM}	60	V
I_{FSM}	150	A
V_F	0.34 Typ ($I_F=3A @ 25^\circ C$)	V
$T_J \text{ max}$	150	$^\circ C$

Features

- Schottky Barrier Diodes
- Low Forward Voltage Drop
- Low Leakage Current
- Moisture Sensitivity : Level 1, per J-STD-020
- Solder dip 260 $^\circ C$, 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
- Polarity : Cathode Band
- Weight : 0.096 grams (approximate)

Ordering Information

Part No.	Remark	Package	Packing
EBRP15E60T	General	TO-277	5000 / Tape & Reel
EBRP15E60T-H	Halogen Free		

Maximum Ratings (TA=25 $^\circ C$ unless otherwise noted)

Parameter	Symbol	EBRP15E60T	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	15	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I_{FSM}	150	A
Maximum Instantaneous Forward Voltage $I_F=3A @ 25^\circ C$ $I_F=15A @ 25^\circ C$	V_F	0.34 Typ. 0.51 Max.	V
Maximum DC Reverse Current @ TA=25 $^\circ C$ at Rated DC Blocking Voltage @ TA=100 $^\circ C$	I_R	0.5 100	mA
Typical Junction Capacitance (NOTE1)	C_j	830	pF
Typical Thermal Resistance	$R_{\theta JC}$	10	$^\circ C/W$
Operating Temperature Range	T_J	-55 to +150	$^\circ C$
Storage Temperature Range	T_{STG}	-55 to +150	$^\circ C$
Marking Code		15E60T · P15E60T	

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

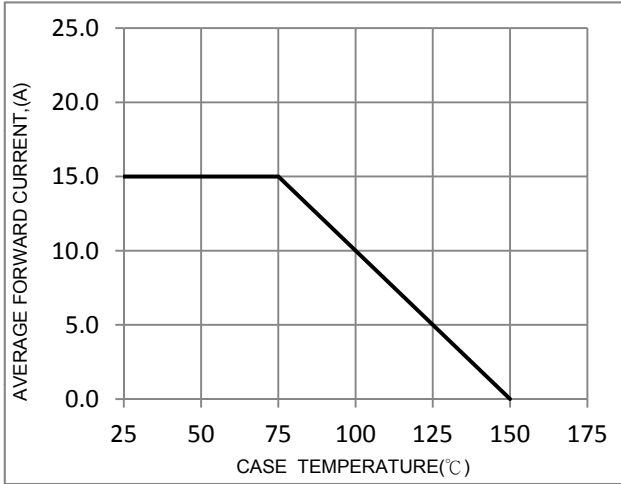


FIG. 2-Typical Forward Characteristics

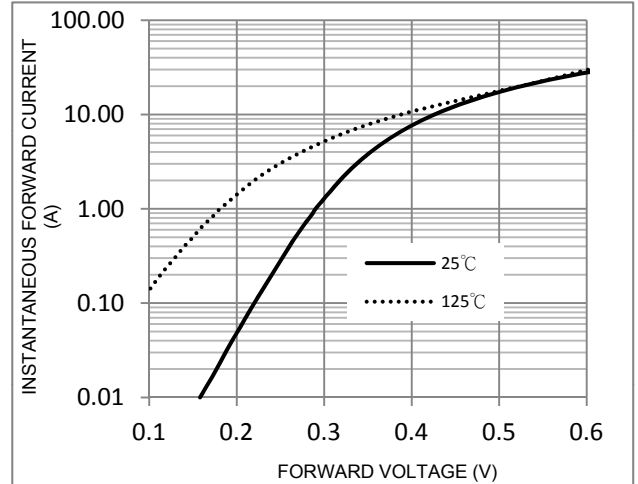


FIG. 3-Maximum Non-Repetitive Forward Surge Current

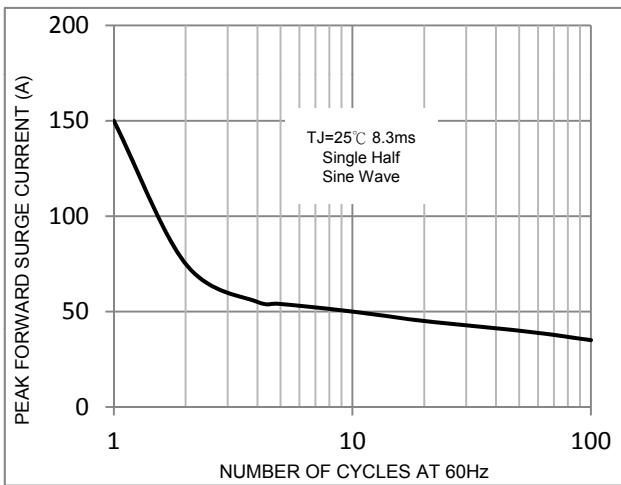


FIG. 4-Typical Reverse Characteristics

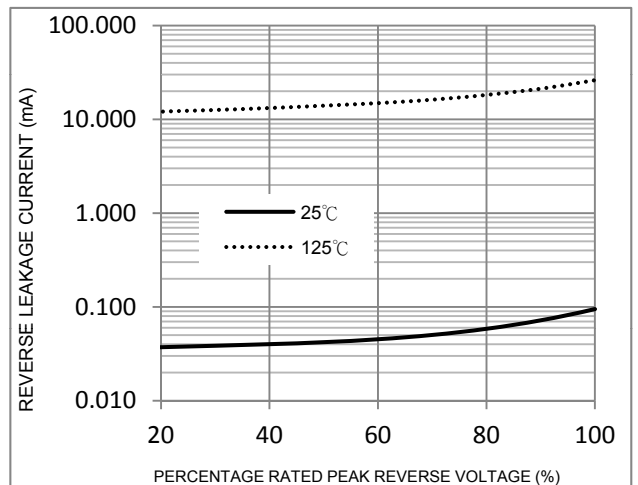
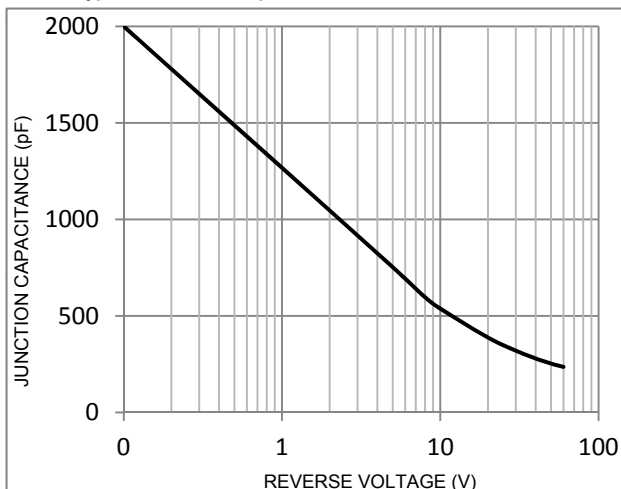


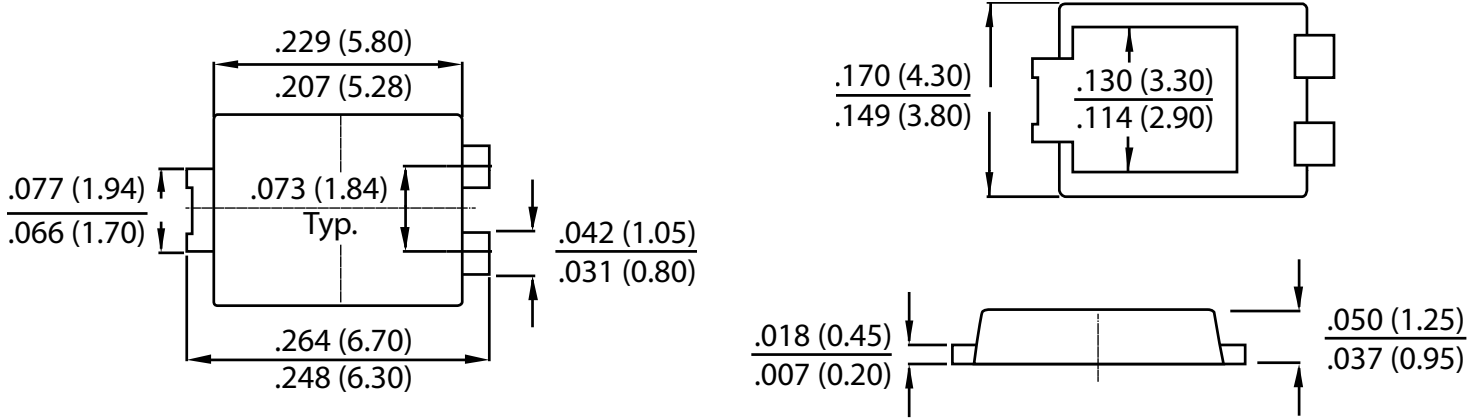
FIG. 5-Typical Junction Capacitance





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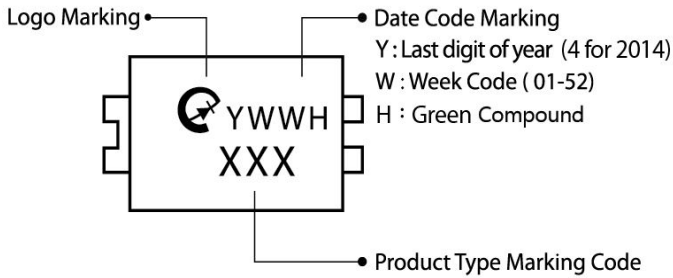
Package Outline Dimensions



TO-277

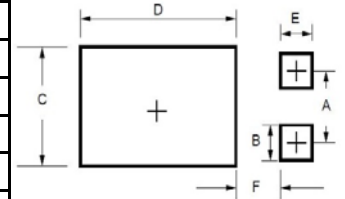
Dimensions in inches and (millimeters)

Marking Information



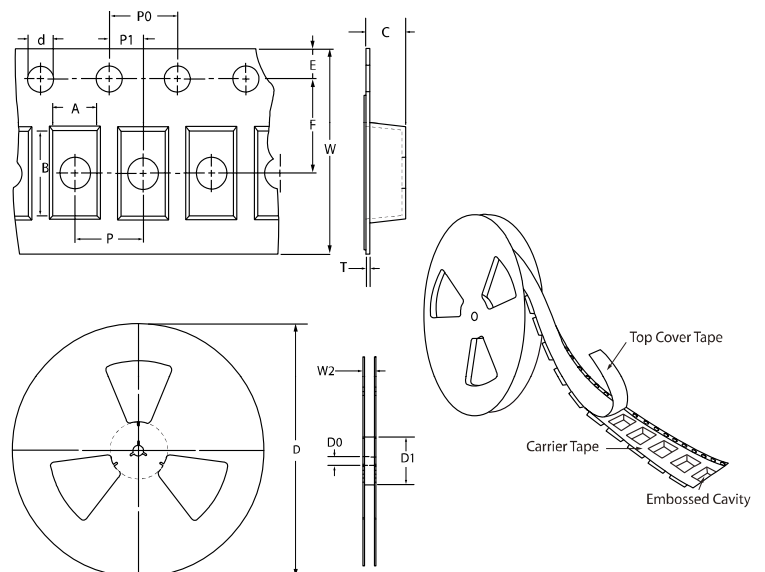
Suggested Pad Layout

Outline Dimension	TO-277 (mm)
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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