



# EBRP10M60T



## Excellent Schottky Barrier Rectifiers



TO-277

Primary Characteristics		
$I_F$	10	A
$V_{RRM}$	60	V
$I_{FSM}$	150	A
$V_F$	0.34 Typ. ( $I_F=2A @ 25^\circ C$ )	V
$T_J \text{ max}$	150	$^\circ C$

Features
<ul style="list-style-type: none"> <li>• Schottky barrier diodes</li> <li>• Low forward voltage drop</li> <li>• Low leakage current</li> <li>• Moisture sensitivity: level 1, per J-STD-020</li> <li>• Solder dip 260 <math>^\circ C</math>, 10 s</li> <li>• Low profile</li> <li>• Heatsink design</li> </ul>

Mechanical Data
<ul style="list-style-type: none"> <li>• Case: TO-277</li> <li>• Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0</li> <li>• Terminals: Lead Free Plating (Tin Finish). Solderable per MIL-STD-202, Method 208</li> <li>• Polarity: Cathode Band</li> <li>• Weight: 0.096 grams (approximate)</li> </ul>

Ordering Information			
Part No.	Remark	Package	Packing
EBRP10M60T	General	TO-277	5000 / Reel
EBRP10M60T-H	Halogen Free		

Maximum Ratings ( $T_A=25^\circ C$ unless otherwise noted)			
PARAMETER	SYMBOL	EBRP10M60T	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	$I_F$	8	A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	150	A
Maximum Instantaneous Forward Voltage $I_F=2A @ 25^\circ C$ $I_F=10A @ 25^\circ C$	$V_F$	0.34 Typ. 0.60 Max.	V
Maximum DC Reverse Current @ $T_A=25^\circ C$ at Rated DC Blocking Voltage @ $T_A=125^\circ C$	$I_R$	0.5 35	mA
Typical Junction Capacitance(NOTE1)	$C_j$	410	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		10M60T 、 P10M60T	

NOTES:

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



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### Rating and Characteristics Curvers

FIG. 1-Typical Forward Current Derating Curve

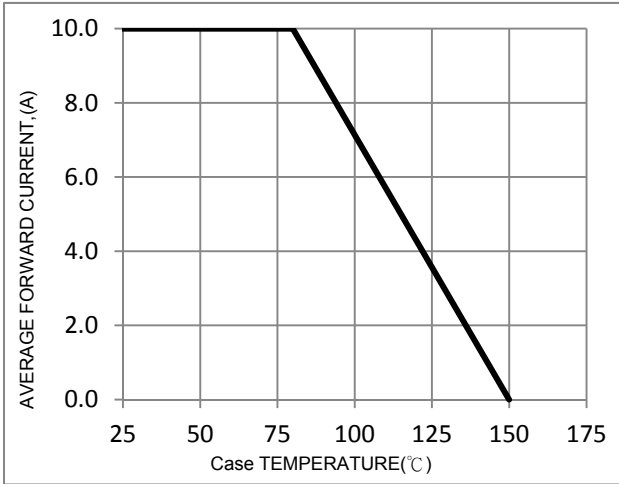


FIG. 2-Typical Forward Characteristics

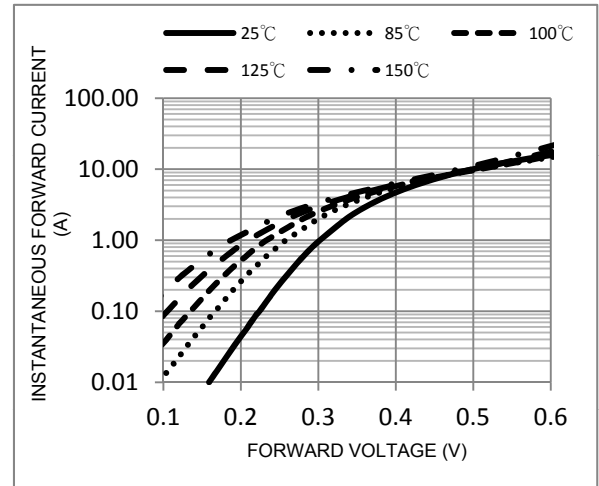


FIG. 3-Maximum Non-Repetitive Forward Surge Current

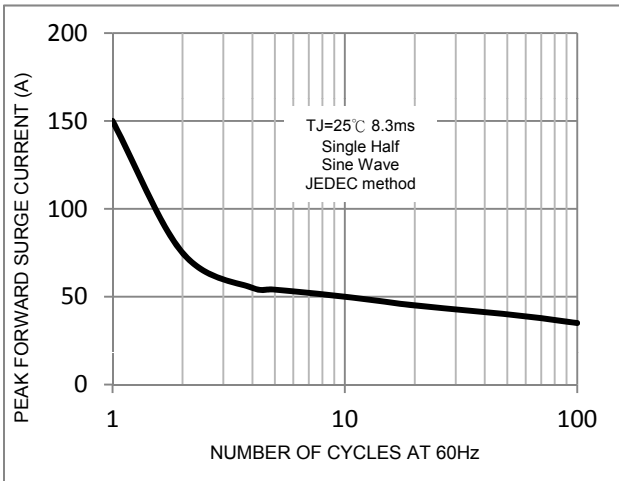


FIG. 4-Typical Reverse Characteristics

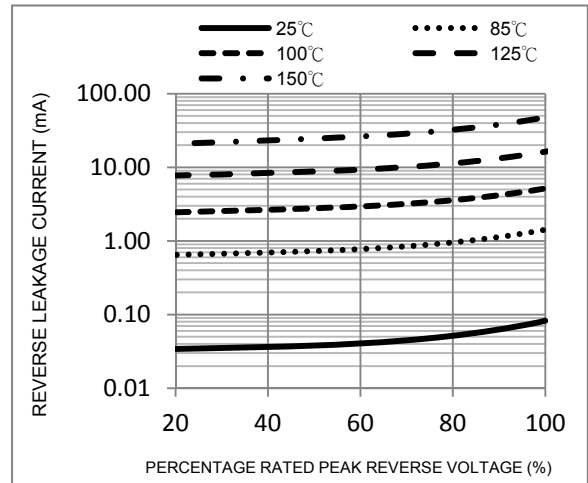
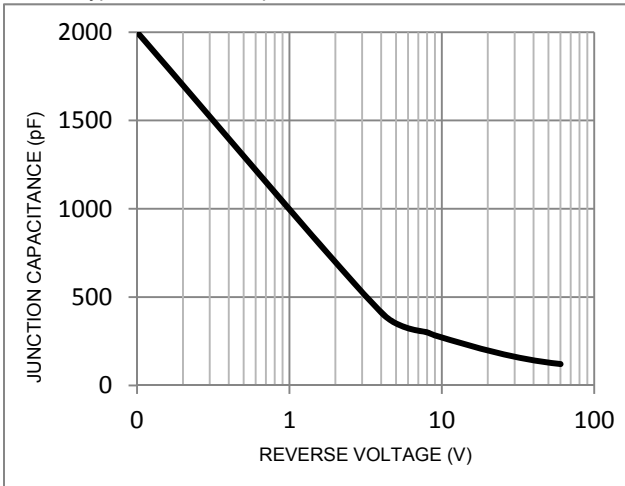


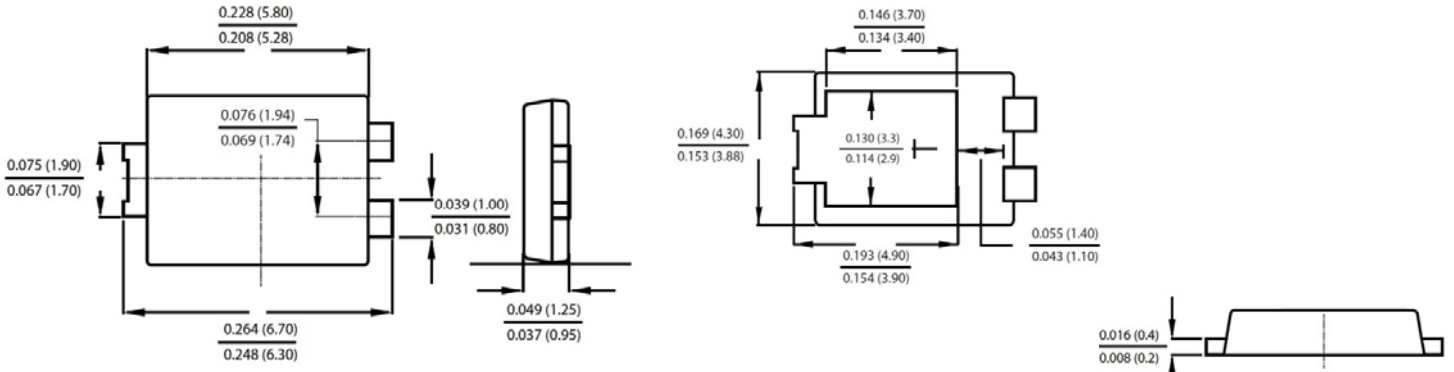
FIG. 5-Typical Junction Capacitance





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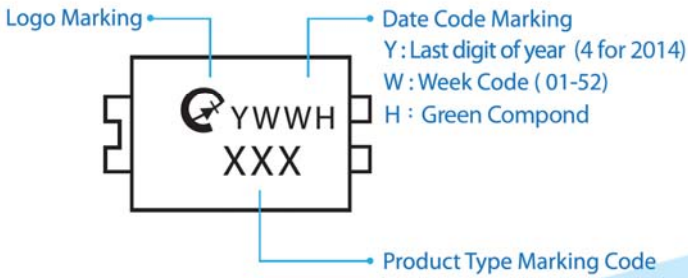
### Package Outline Dimensions



### TO-277

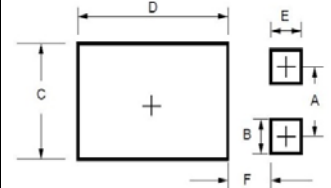
Dimensions in inches and (millimeters)

### 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)

