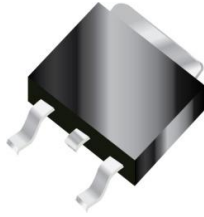




# EBRT30E120CD2



## Excellent Schottky Barrier Rectifiers



**D2-PAK**

Primary Characteristics		
$I_F$	30	A
$V_{RRM}$	120	V
$I_{FSM}$	200	A
$V_F$	0.78	V
$T_J \text{ max}$	150	°C

Features
<ul style="list-style-type: none"> <li>• Low Forward Voltage Drop</li> <li>• Excellent High Temperature Stability</li> <li>• Excellent Barrier Rectifier Technology</li> <li>• Soft, Fast Switching Capability</li> </ul>

Mechanical Data
<ul style="list-style-type: none"> <li>• Case: D2-PAK</li> <li>• Case Material: Molded Plastic, UL Flammability Classification Rating 94V-0</li> <li>• Terminals: Matte Tin Finish annealed over Copper leadframe. Solderable per MIL-STD-202, Method 208</li> <li>• Weight: 1.43 grams (approximate)</li> </ul>

Ordering Information			
Part No.	Remark	Package	Packing
EBRT30E120CD2	General	D2-PAK	800 / Reel
EBRT30E120CD2-H	Halogen Free		

Maximum Ratings (TA=25°C unless otherwise noted)			
PARAMETER	SYMBOL	EBRT30E120CD2	UNIT
Maximum repetitive peak reverse voltage	$V_{RRM}$	120	V
Maximum RMS voltage	$V_{RMS}$	84	V
Maximum DC blocking voltage	$V_{DC}$	120	V
Maximum average forward rectified current (Total) (Per Leg)	$I_F$	30 15	A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	200	A
Maximum Instantaneous Forward Voltage $I_F=3A @ 25^\circ C$ $I_F=15A @ 25^\circ C$	$V_F$	0.46 Typ. 0.78 Max.	V
Maximum DC Reverse Current @ TA=25°C at Rated DC Blocking Voltage @ TA=125°C	$I_R$	0.2 25	mA
Typical Junction Capacitance(NOTE1)	$C_j$	1110	pF
Typical Thermal Resistance	$R_{\theta JC}$	3	°C/W
Operating Temperature Range	$T_J$	-55 to +150	°C
Storage Temperature Range	$T_{STG}$	-55 to +150	°C
Marking Code		30E120CD2 · T30E120CD2	

NOTES:

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



## Excellent Schottky Barrier Rectifiers

### Rating and Characteristics Curves

FIG. 1-Typical Forward Current Derating Curve

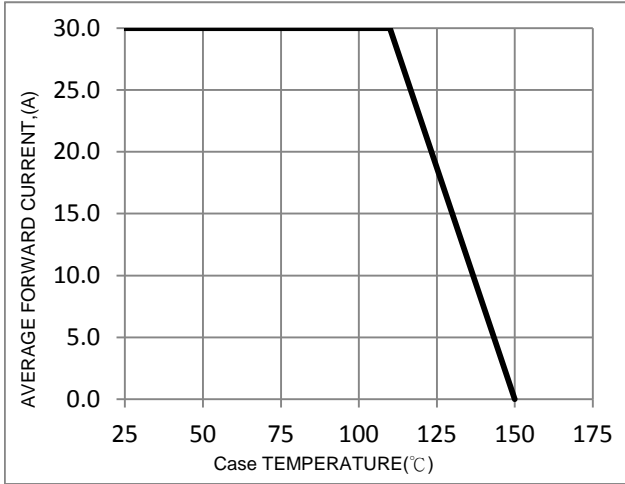


FIG. 2-Typical Forward Characteristics

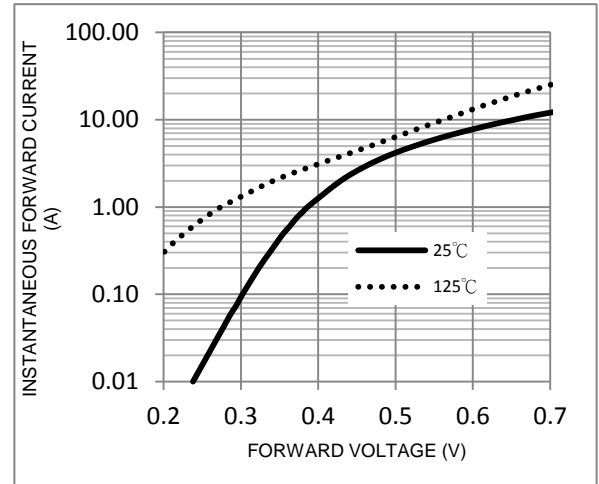


FIG. 3-Maximum Non-Repetitive Forward Surge Current

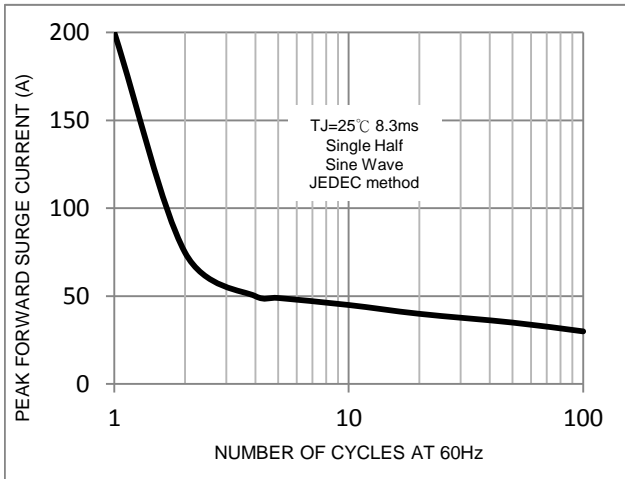


FIG. 4-Typical Reverse Characteristics

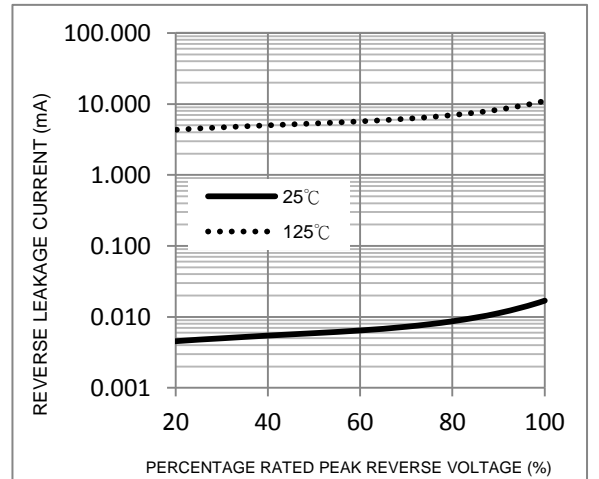
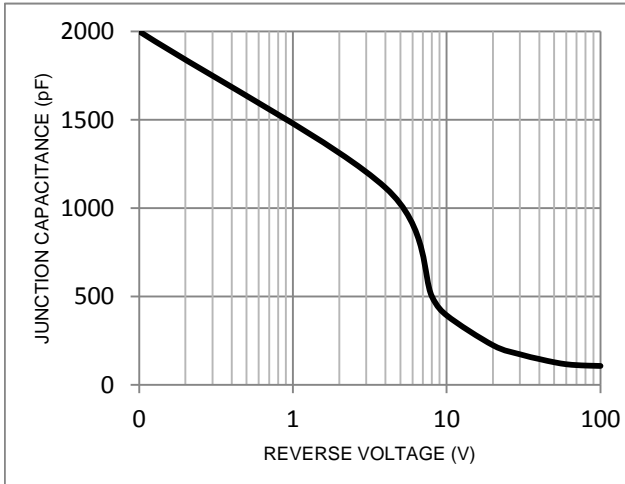


FIG. 5-Typical Junction Capacitance



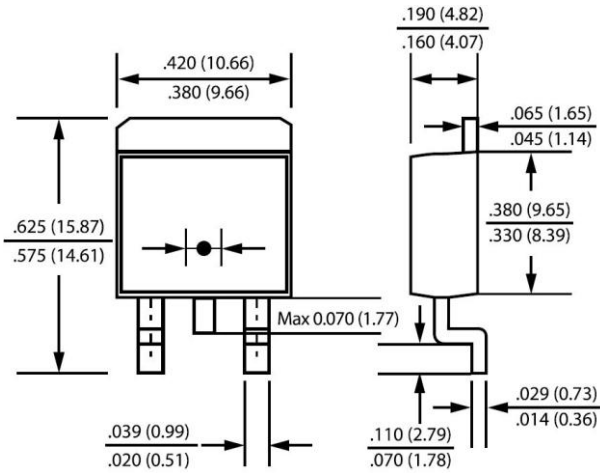


# EBRT30E120CD2



## Excellent Schottky Barrier Rectifiers

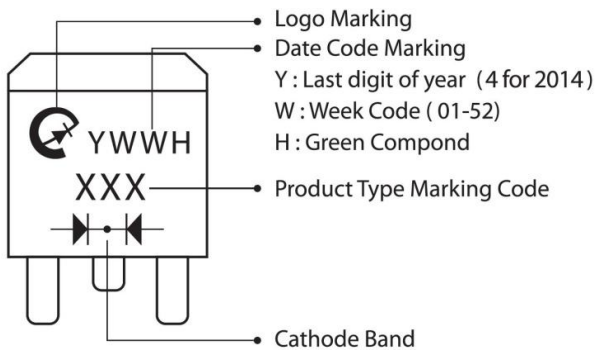
### Package Outline Dimensions



### D2-PAK

Dimensions in inches and (millimeters)

### Marking Information



### Suggested Pad Layout

Dimension	Outline	D2PAK (mm)
A		5.08
B		1.10
C		10.80
D		8.30
E		3.50
F		16.90

