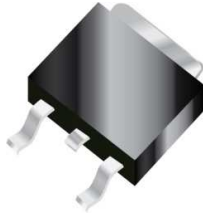




# EBRT40L100CD2



## Excellent Schotthy Barrier Rectifiers



**D2-PAK**

### Primary Characteristics

$I_F$	40	A
$V_{RRM}$	100	V
$I_{FSM}$	150	A
$V_F$	0.72	V
$T_J$ max	150	°C

### Features

- Low Forward Voltage Drop
- Excellent High Temperature Stability
- Excellent Barrier Rectifier Technology
- Soft, Fast Switching Capability

### Mechanical Data

- Case: D2-PAK
- Case Material: Molded Plastic, UL Flammability Classification Rating 94V-0
- Terminals: Matte Tin Finish annealed over Copper leadframe. Solderable per MIL-STD-202, Method 208
- Weight: 1.43 grams (approximate)

### Ordering Information

Part No.	Remark	Package	Packing
EBRT40L100CD2	General	D2-PAK	800 / Reel
EBRT40L100CD2-H	Halogen Free		

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

PARAMETER	SYMBOL	EBRT40L100CD2	UNIT
Maximum repetitive peak reverse voltage	$V_{RRM}$	100	V
Maximum RMS voltage	$V_{RMS}$	70	V
Maximum DC blocking voltage	$V_{DC}$	100	V
Maximum average forward rectified current (Total) (Per Leg)	$I_F$	40 20	A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	150	A
Maximum Instantaneous Forward Voltage $I_F=5A @ 25^\circ C$ $I_F=10A @ 25^\circ C$ $I_F=20A @ 25^\circ C$	$V_F$	0.47 Typ. 0.54Typ. 0.72 Max.	V
Maximum DC Reverse Current @ TA=25°C at Rated DC Blocking Voltage @ TA=125°C	$I_R$	0.2 20	mA
Typical Junction Capacitance(NOTE1)	$C_j$	1390	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		T40L100CD2 · 40L100CD2	

### 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

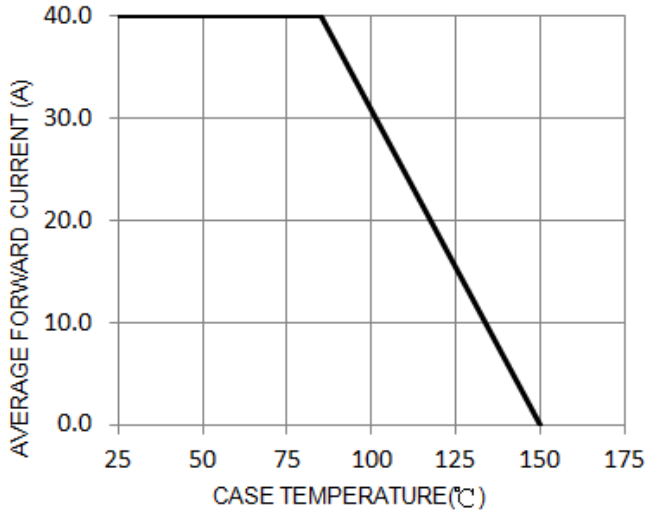


FIG. 2-Typical Forward Characteristics

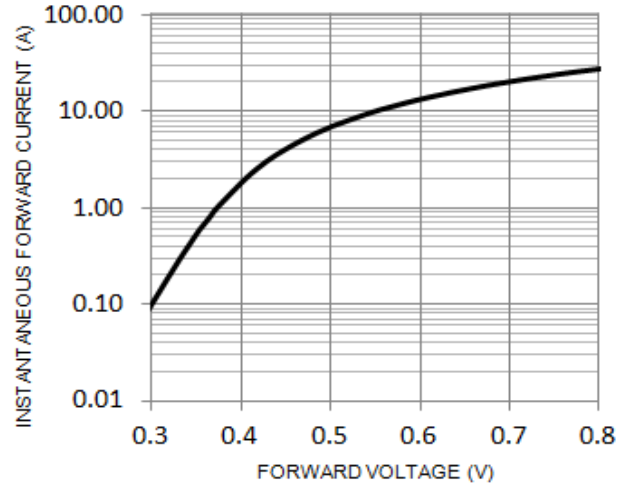


FIG. 3-Maximum Non-Repetitive Forward Surge Current

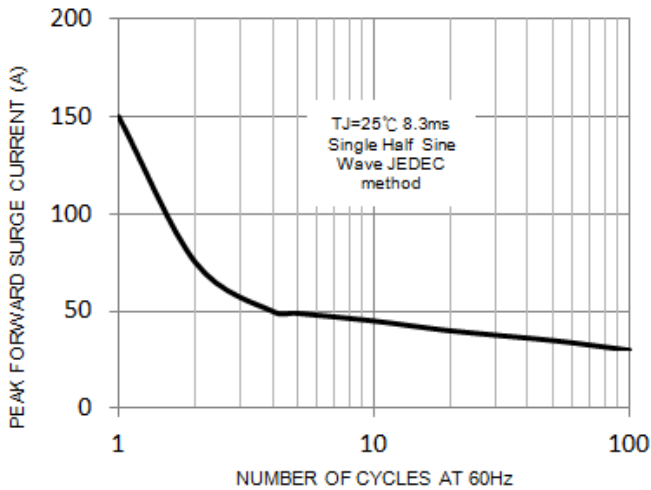


FIG. 4-Typical Reverse Characteristics

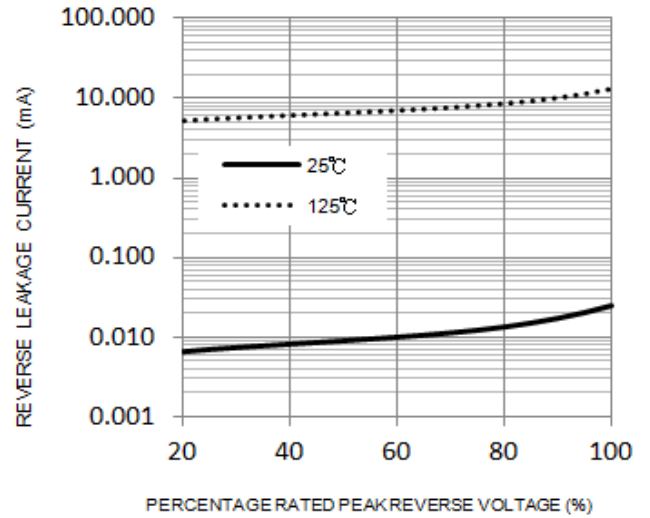
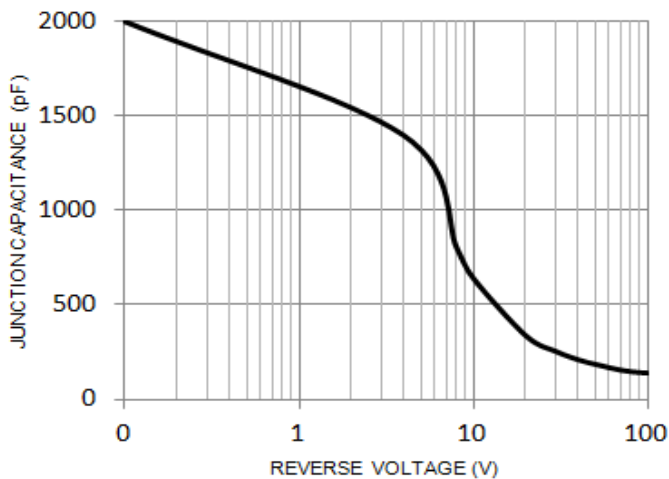


FIG. 5-Typical Junction Capacitance



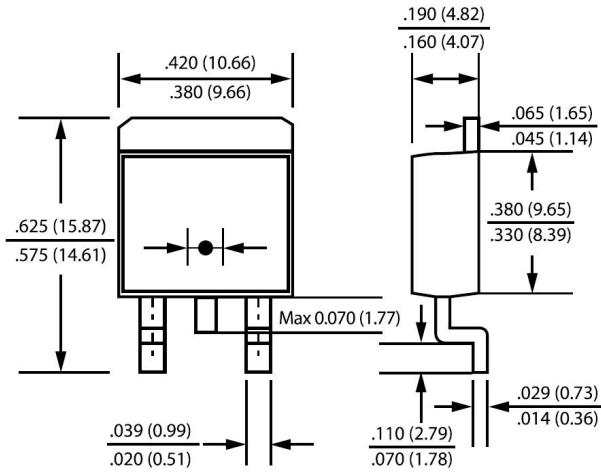


# EBRT40L100CD2



## Excellent Schotthy Barrier Rectifiers

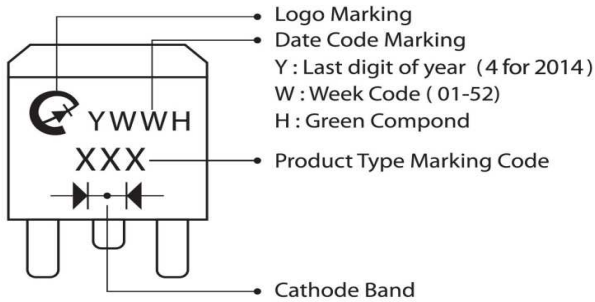
### Package Outline Dimensions



### D2-PAK

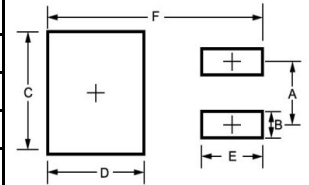
Dimensions in inches and (millimeters)

### Marking Information



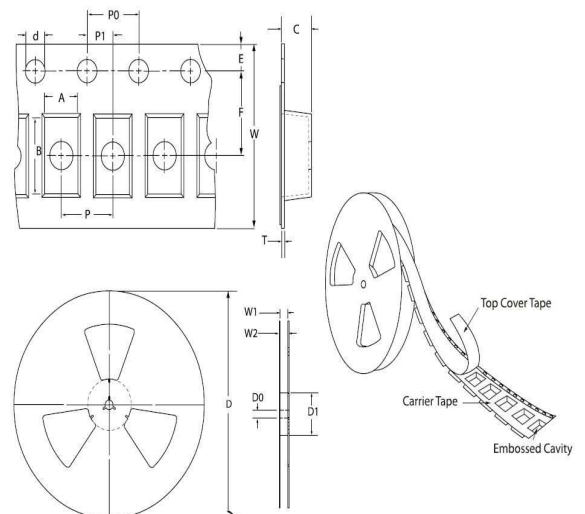
### Suggested Pad Layout

Dimension	Outline	D2-PAK (mm)
A		5.08
B		1.10
C		10.80
D		8.30
E		3.50
F		16.90



### Tap & Reel Specification

ITEM	SYMBOL	D2-PAK(mm)
Carrier width	A	10.7±0.1
Carrier length	B	16.3±0.1
Carrier depth	C	5±0.1
Sprocket hole	d	1.55±0.05
Reel outside diameter	D	330±2
Feed hole diameter	D0	13.5±1
Reel inner diameter	D1	100(min)
Sprocket hole position	E	1.75±0.1
Punch hole position	F	11.5±0.1
Sprocket hole pitch	P	16±0.1
Sprocket hole pitch	Po	4±0.1
Embossment center	P1	2±0.1
Overall tape thickness	T	0.3±0.05
Tape width	W	24±0.3
Reel width	W2	-
Reel width	W1	24.2(Max)





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