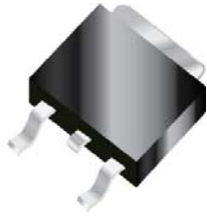




## Excellent Schottky Barrier Rectifiers



**D2-PAK**

### Primary Characteristics

$I_F$	30	A
$V_{RRM}$	100	V
$I_{FSM}$	250	A
$V_F$	0.65	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
EBRT30E100CD2	General	D2-PAK	800 / Reel
EBRT30E100CD2-H	Halogen Free		

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

Parameter	Symbol	EBRT30E100CD2	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)	$I_F$	30 15	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	$I_{FSM}$	250	A
Maximum Instantaneous Forward Voltage $I_F=5A @ 25^\circ C$ $I_F=15A @ 25^\circ C$	$V_F$	0.47 Typ. 0.65 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)	$C_j$	1400	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		T30E100CD2 · 30E100CD2	

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

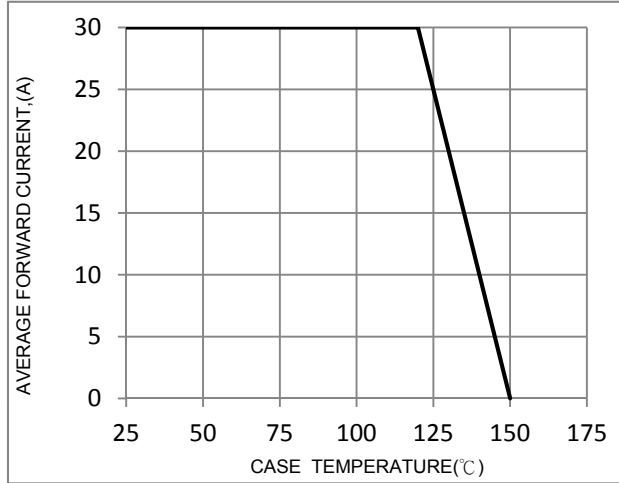


FIG. 2-Typical Forward Characteristics

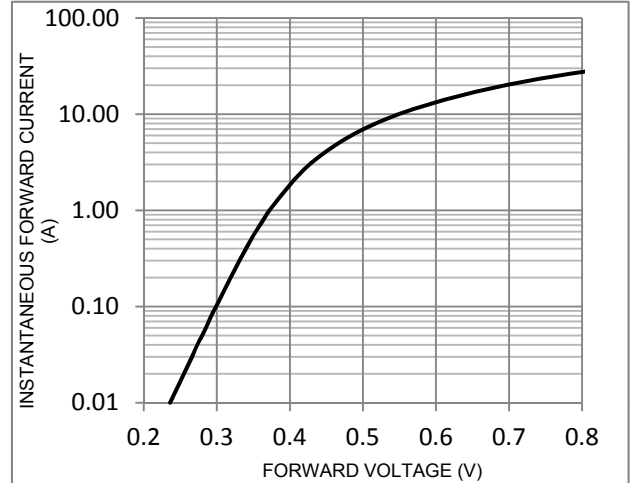


FIG. 3-Maximum Non-Repetitive Forward Surge Current

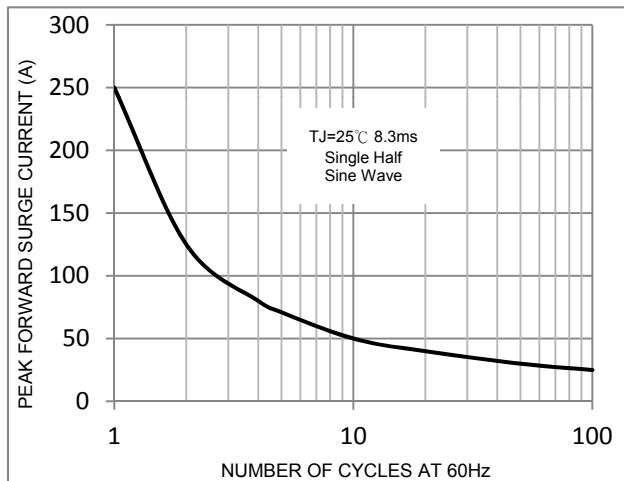


FIG. 4-Typical Reverse Characteristics

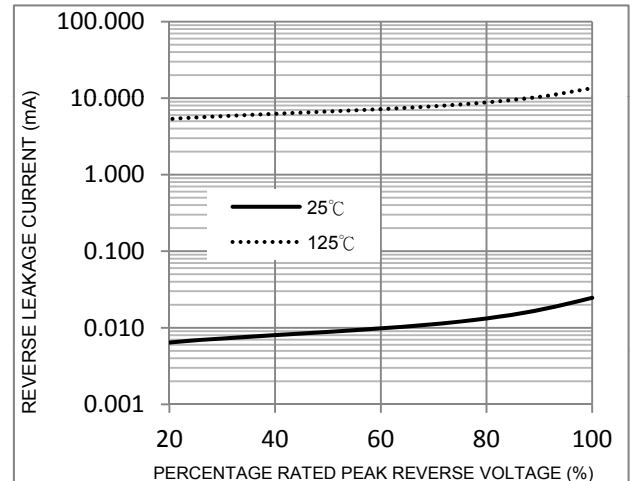
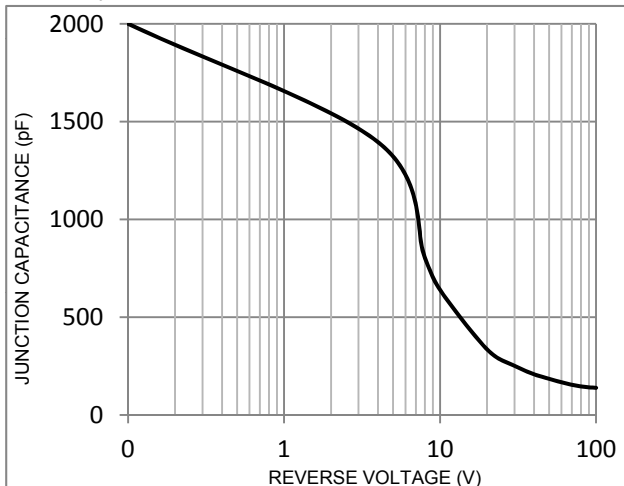


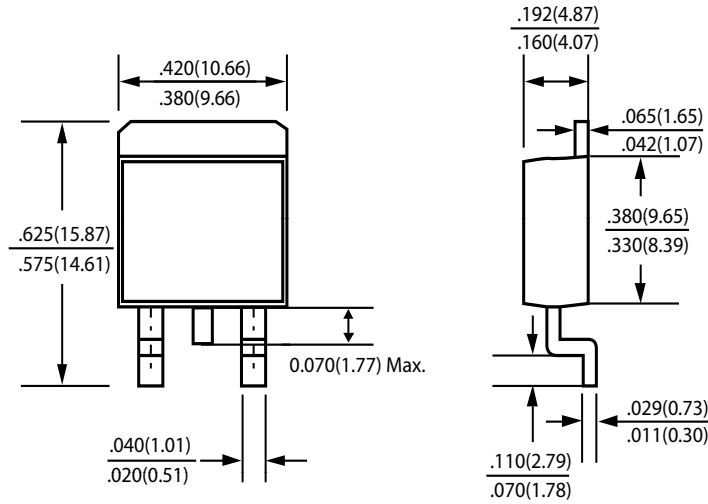
FIG. 5-Typical Junction Capacitance





## Excellent Schottky Barrier Rectifiers

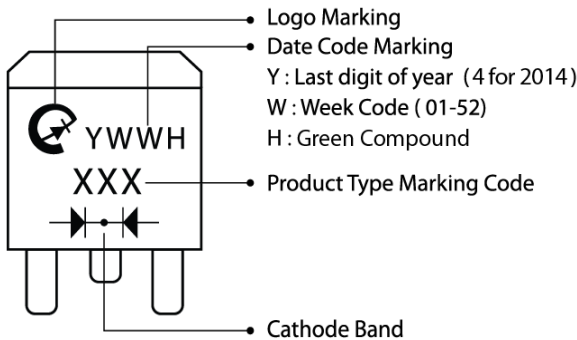
### Package Outline Dimensions



### D2-PAK

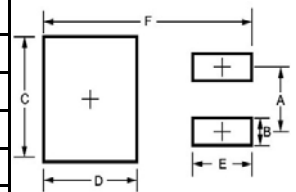
Dimensions in inches and (millimeters)

### Marking Information



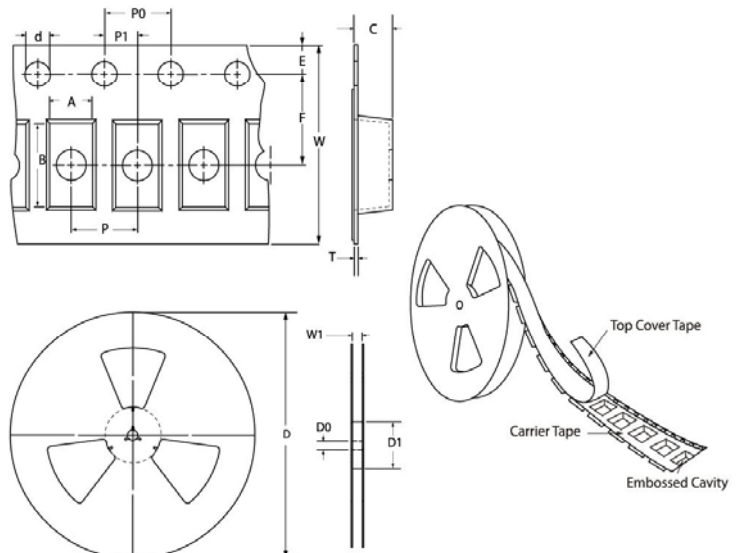
### Suggested Pad Layout

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



### Tape & Reel Specification

Item	Symbol	D2-PAK (mm)
Carrier width	A	10.8±0.1
Carrier length	B	16.2±0.2
Carrier depth	C	5.2±0.3
Sprocket hole	d	1.55±0.05
Reel outside diameter	D	330±2
Feed hole diameter	D0	13.5±1
Reel inner diameter	D1	50(min)
Sprocket hole position	E	1.75±0.1
Punch hole position	F	11.5±0.1
Sprocket hole pitch	P	16.0±0.1
Sprocket hole pitch	P0	4.0±0.1
Embossment center	P1	2.0±0.1
Overall tape thickness	T	0.305±0.1
Tape width	W	24±0.3
Reel width	W1	24.3(Max)





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