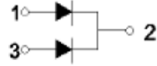
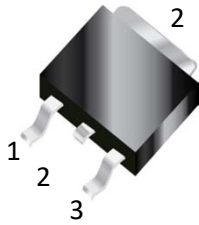




EBRP30L60CD2



Excellent Schotthy Barrier Rectifiers



D2-PAK

Features

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

Primary Characteristics

I_F	30	A
V_{RRM}	60	V
I_{FSM}	250	A
$I_F=15A@V_F$	0.58	V
$T_J \text{ max}$	150	°C

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
EBRP30L60CD2	RoHS Compliant	D2-PAK	800 / Reel
EBRP30L60CD2-H	Halogen Free		

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

Parameter	Symbol	EBRP30L60CD2	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 (Total) (Per Leg)	I_F	30 15	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (per Diode)	I_{FSM}	250	A
Instantaneous Forward Voltage (per Diode) $I_F=3A @ 25^\circ C$ $I_F=15A @ 25^\circ C$	V_F	0.35 (Typ.) 0.58 (Max.)	V
DC Reverse Current @ $T_J=25^\circ C$ at Rated DC Blocking Voltage @ $T_J=125^\circ C$	I_R	0.5 (Max.) 15 (Typ.)	mA
Typical Junction Capacitance (NOTE1)	C_J	650	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		P30L60CD2 · 30L60CD2	

NOTES :

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



Excellent Schotthy Barrier Rectifiers

Rating and Characteristics Curves

FIG. 1-Typical Forward Current Derating Curve

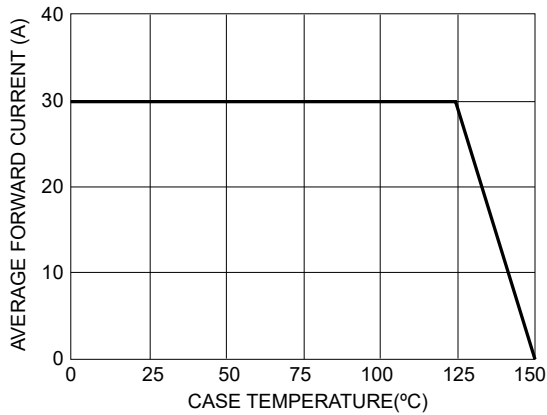


FIG. 2-Typical Forward Characteristics

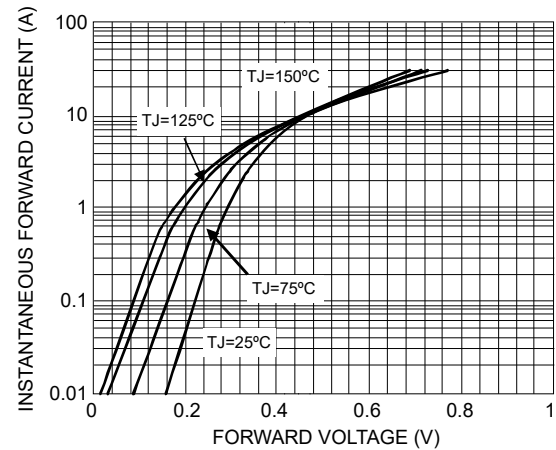


FIG. 3-Maximum Non-Repetitive Forward Surge Current

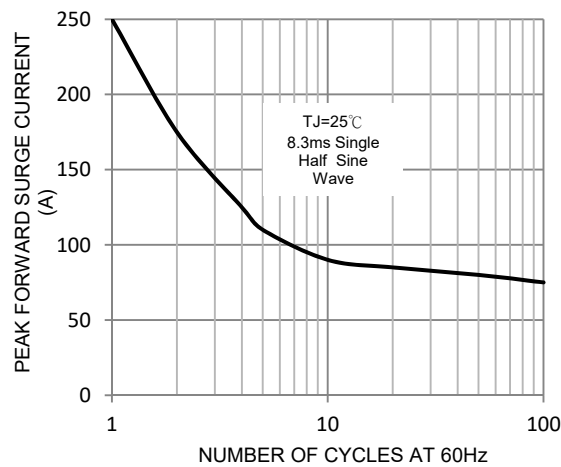


FIG. 4-Typical Reverse Characteristics

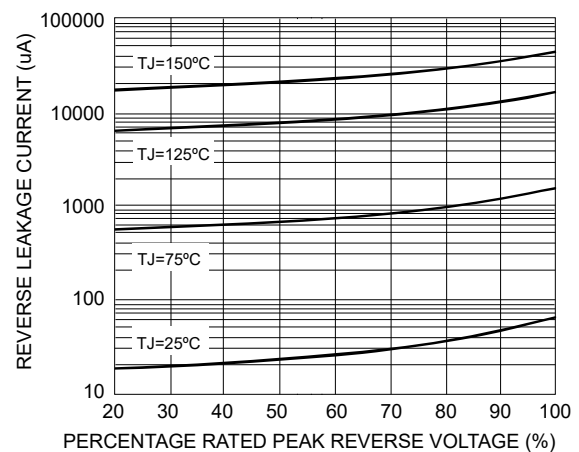
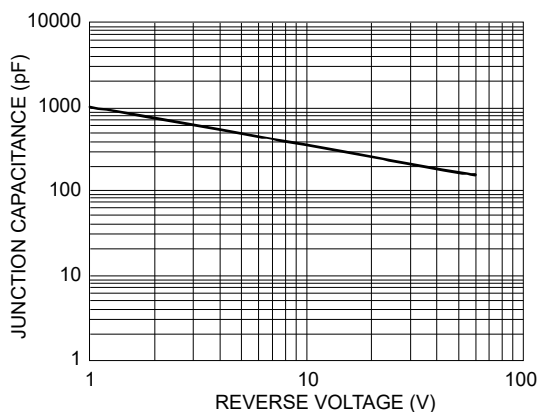


FIG. 5-Typical Junction Capacitance



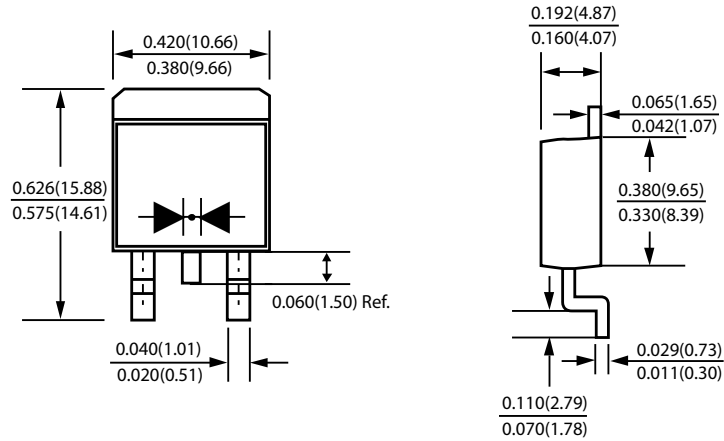


EBRP30L60CD2



Excellent Schottky Barrier Rectifiers

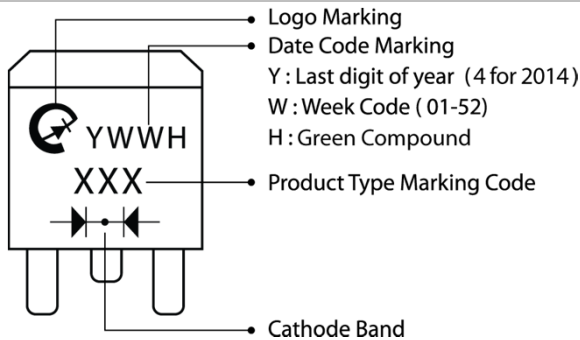
Package Outline Dimensions



D2-PAK

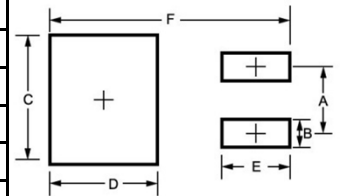
Dimensions in inches and (millimeters)

Marking Information



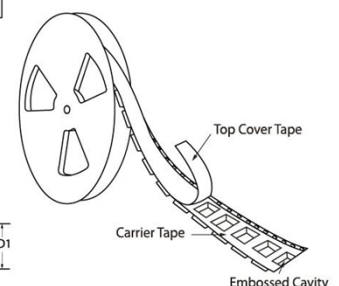
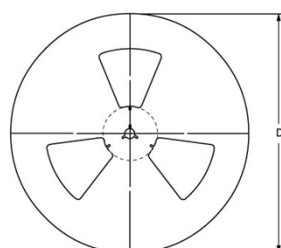
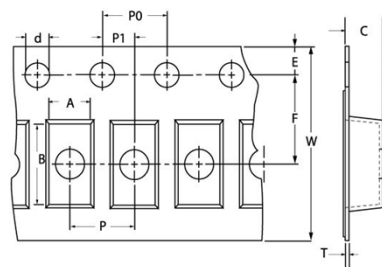
Suggested Pad Layout

Outline Dimension	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 ± 2.0
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	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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