



PINNING

PIN	DESCRIPTION
1	Input Pin (~)
2	Input Pin (~)
3	Output Anode (+)
4	Output Cathode (-)

Features

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-
-
- High
-

Benefits

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- Reduced power loss and switching transistor
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Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

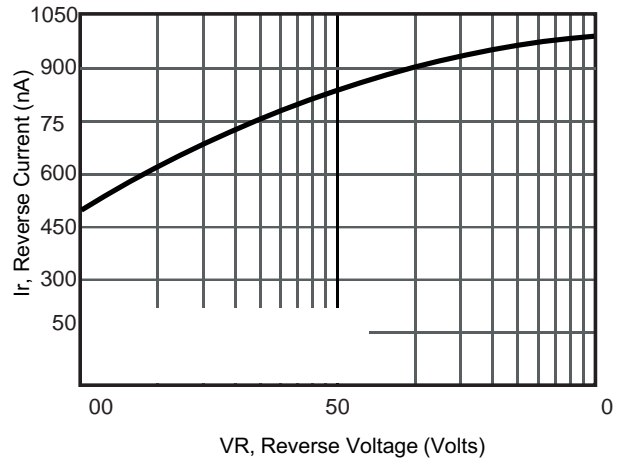
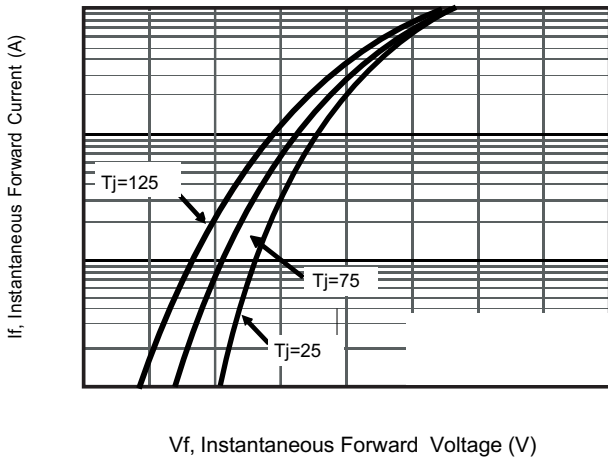
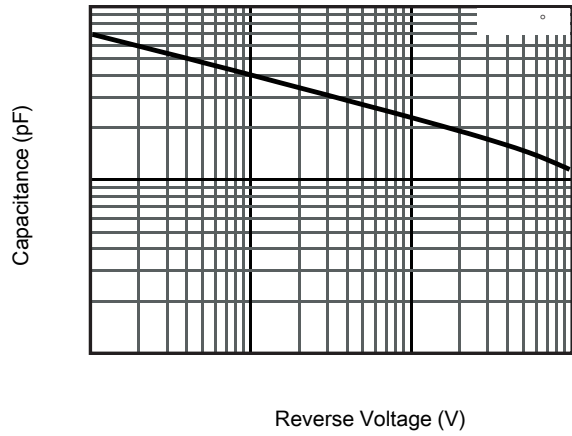
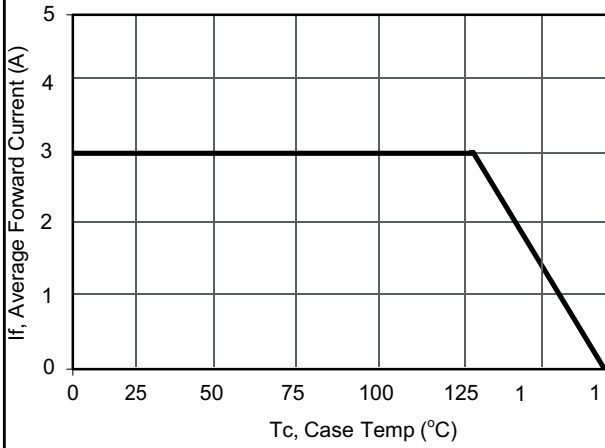
Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	XBS30J	XBS30K	XBS30M	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	600	800	1000	V
Maximum RMS voltage	V_{RMS}	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	600	800	1000	V
Average Rectified Output Current	I_o	.0			A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	40			A
$I^2 t$ rating for fusing (1ms < t < 10ms)	$I^2 t$	98			A ² S
Maximum Forward Voltage at A	V_F	1.			V
Maximum DC Reverse Current @ $T_A=25\text{ }^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_A=125\text{ }^\circ\text{C}$	I_R	5 100			A
Typical Junction Capacitance (Note1)	C_j	0			pF
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +1			°C
Typical thermal resistance (Note 2)	R_{thJc} R_{thJa}	6 12			°C/W

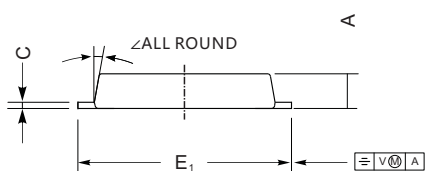
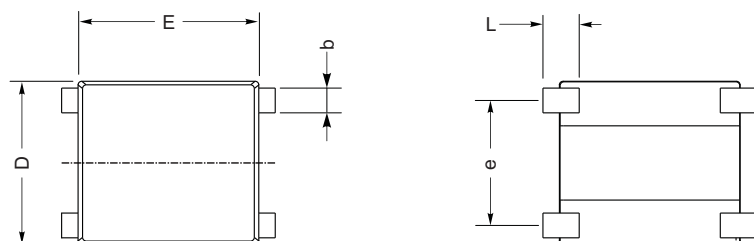
Note: 1. Measured at 1MHz and applied reverse voltage of 4 V D.C.

2. Thermal resistance from Junction to case, lead and ambient in accordance with JESD-51.
Unit mounted on 15mm*12mm*1.6mm AL pad attach 195mm*195mm*10mm steel plate

RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)



PACKAGE OUTLINE DIMENSIONS



UNIT						
mm	max	1.5	0.29		8.9	10°
	min	1.3	0.17		8.4	