

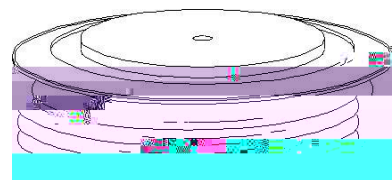
# BLVD13C 2500-FAST RECOVERY DIODE

2400-3000 V IRRM

## FAST RECOVERY RECTIFIER DIODE

### Features:

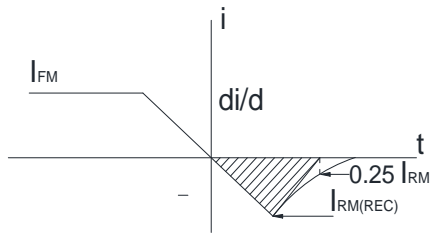
- . All diffused structure
- . High surge rating
- . Blocking capability up to 3000 volts
- . Soft recovery
- . Ceramic housing hermetic package
- . Pressure assembled device



## ELECTRICAL CHARACTERISTICS AND RATINGS

### Reverse Blocking

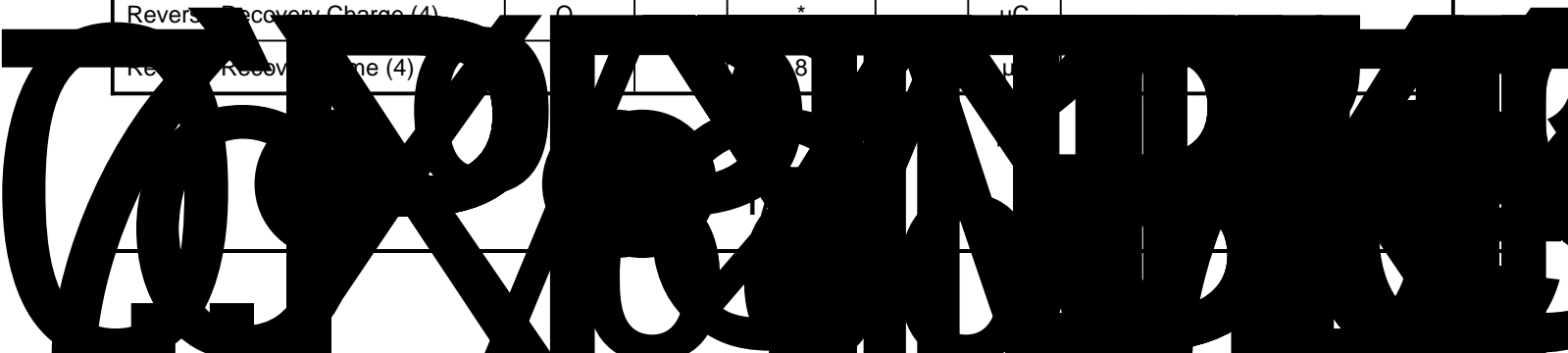
Repetitive peak reverse leakage current	$I_{RRM}$	15 mA 80 mA (3)
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reverse recovery characteristic

### Conducting - on state

Parameter	Symbol	Min.	Max.	Typ.	Units	Conditions
Average forward current			2500			$T_c$
RMS forward current			925		A	
Peak one cycle surge (non repetitive) current			3000		A	100 μsec (50Hz), sinusoidal waveform, 180° conduction, $T_j = 125^\circ\text{C}$
I square t			$2.2 \cdot 10^5$		A <sup>2</sup> s	100 μsec and 10.0 μsec
Peak forward voltage			2.40		V	3000A; Duty cycle 0.01%
Threshold voltage			1.02		V	$T_j = 25^\circ\text{C}, I = 0.5 I_{F(AV)}$ to $1.5 I_{F(AV)}$
Slope resistance	$r_F$		0.2		m	$T_j = 125^\circ\text{C}, I = 0.5 I_{F(AV)}$ to $1.5 I_{F(AV)}$
Reverse Recovery Current (4)	$I_{RM(REC)}$		*		A	
Reverse Recovery Charge (4)	$Q_{RR}$		*		μC	
Reverse Recovery Time (4)	$t_{RR}$		8		μs	




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