Features

- Low forward voltage and leakage current
- Low inductance package
- High surge current capability

Product Summary

Applications

- Field supply for DC motors
- Line rectifiers for transistorized AC motor controllers
- Non-controllable rectifiers for AC/DC converter

Absolute Maximum Ratings (@ T_C = 25°C unless otherwise specified)

Parameter	Conditions	Symbol	Values	Unit
Repetitive peak reverse voltage	T_{vj} = 25°C	V_{RRM}	1600	V
Non-repetitive peak reverse voltage	T_{vj} = 25°C	V_{RSM}	1700	V
Average forward current	T_C = 100°C	I_D	100	A

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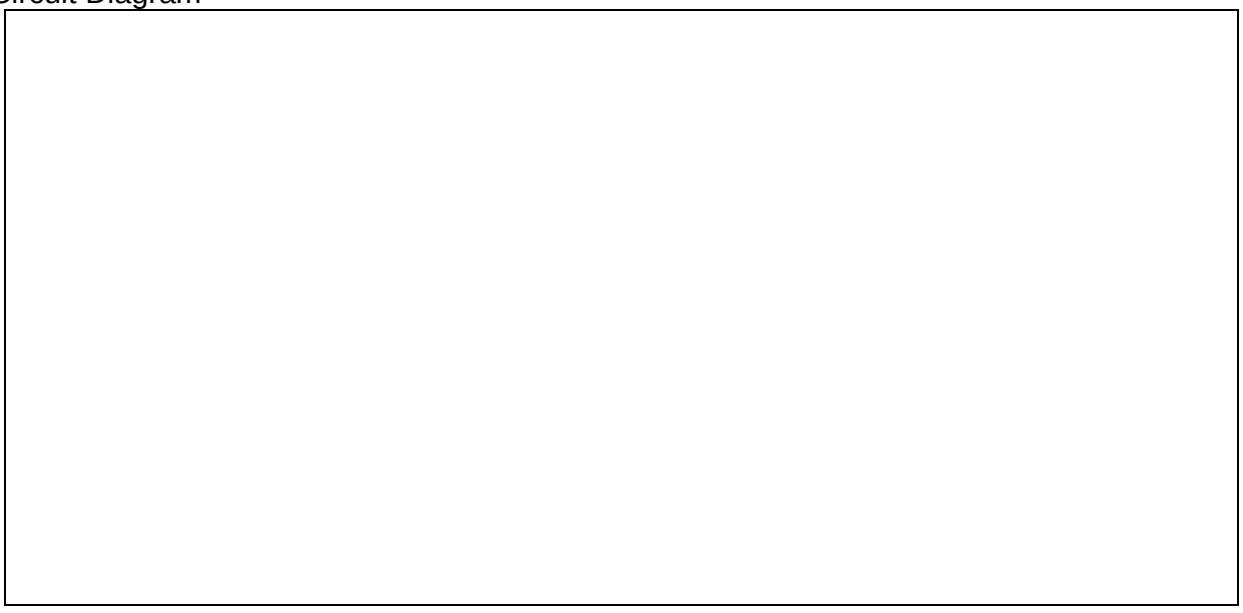
Electrical Characteristics (@ T_C = 25°C unless otherwise specified)

Parameter	Conditions	Symbol	Values			Unit
			Min.	Typ.	Max.	
Peak forward voltage	I_F=100A, t_P=380 V	V_{FM}		1.20	1.40	V
Reverse leakage current	V_R = V_{RRM}, T_{vj} = 25 (	I_{RRM}			0.3	mA
	V_R = V_{RRM}, T_{vj} = 150 (				5	mA
Threshold voltage	T_{vj} = 150 (, for power loss calculation only	V_{TO}			0.85	V

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Typical Electrical & Thermal Characteristics

Circuit Diagram



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