

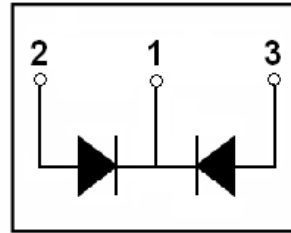
**PRODUCT FEATURES**

- Glass Passivated Chip
- Aluminum Oxide Ceramic Isolated Metal Baseplate
- Low Reverse Recovery Loss
- Low Forward Voltage
- High Surge Current Capability
- Low Inductance Package



**APPLICATIONS**

- Field Supply For DC Motors
- Line Rectifiers For Transistorized AC Motor Controllers
- Non-controllable Rectifiers For AC/DC Converter



**ABSOLUTE MAXIMUM RATINGS**

T<sub>C</sub>=25°C unless otherwise specified

Symbol	Parameter	Test Conditions	Max.	Unit
V <sub>RRM</sub>	Repetitive Reverse Voltage		1600	V
I <sub>F(AV)</sub>	Average Forward Current	T <sub>C</sub> =85°C Rectangular, d=0.5	130	A
I <sub>F(RMS)</sub>	RMS Forward Current	T <sub>C</sub> =85°C Rectangular, d=0.5	180	A
I <sub>FSM</sub>	Non-Repetitive Surge Forward Current	T <sub>J</sub> =45°C, t=10ms, 50Hz, Sine	3500	A
		T <sub>J</sub> =45°C, t=8.3ms, 60Hz, Sine	3800	A
I <sup>2</sup> t	I <sup>2</sup> t (For Fusing)	T <sub>J</sub> =45°C, t=10ms, 50Hz, Sine	61250	kA <sup>2</sup> s
		T <sub>J</sub> =45°C, t=8.3ms, 60Hz, Sine	59926	kA <sup>2</sup> s
P <sub>D</sub>	Power Dissipation		694	W
T <sub>J</sub>	Junction Temperature		-40 to +150	°C
T <sub>STG</sub>	Storage Temperature Range		-40 to +125	°C
V <sub>isol</sub>	Insulation Test Voltage	AC, 50Hz, t=1min	3000	V
Weight			161	g

**ELECTRICAL AND THERMAL CHARACTERISTICS**

T<sub>C</sub>=25°C unless otherwise specified

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
I <sub>RM</sub>	Reverse Leakage Current	V <sub>R</sub> = V <sub>RRM</sub>	--	--	500	µA
		V <sub>R</sub> = V <sub>RRM</sub> , T <sub>J</sub> =150°C	--	--	9	mA
V <sub>F</sub>	Forward Voltage	I <sub>F</sub> =300A	--	1.25	1.5	V
		I <sub>F</sub> =300A, T <sub>J</sub> =125°C	--	1.2	--	V
R <sub>θJC</sub>	Thermal Resistance	Junction-to-Case	--	--	0.2	°C/W

**MECHANICAL CHARACTERISTICS**

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Torque	Module-to-Sink	Recommended (M6)	3		5	N · m
Torque	Module Electrodes	Recommended (M6)	3		5	N · m

**DS Package Outline (Dimensions in mm)**

