



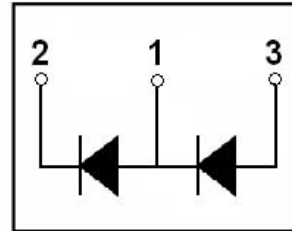
PRODUCT FEATURES

- 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_C=25°C unless otherwise specified

Symbol	Parameter	Test Conditions	Max.	Unit
V _{RRM}	Repetitive Reverse Voltage		1600	V
I _{F(AV)}	Average Forward Current	T _C =85°C Rectangular, d=0.5	130	A
I _{F(RMS)}	RMS Forward Current	T _C =85°C Rectangular, d=0.5	180	A
I _{FSM}	Non-Repetitive Surge Forward Current	T _J =45°C, t=10ms, 50Hz, Sine	3500	A
		T _J =45°C, t=8.3ms, 60Hz, Sine	3800	A
I ² t	I ² t (For Fusing)	T _J =45°C, t=10ms, 50Hz, Sine	61250	A ² s
		T _J =45°C, t=8.3ms, 60Hz, Sine	72250	A ² s
P _D	Power Dissipation		694	W
T _J	Junction Temperature		-40 to +150	°C
T _{STG}	Storage Temperature Range		-40 to +125	°C
V _{isol}	Insulation Test Voltage	AC, 50Hz, t=1min	3000	V
Weight			161	g

ELECTRICAL AND THERMAL CHARACTERISTICS

T_C=25°C unless otherwise specified

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
I _{RM}	Reverse Leakage Current	V _R =1600V	--	--	500	µA
		V _R =1600V, T _J =125°C	--	--	10	mA
V _F	Forward Voltage	I _F =300A	--	1.25	1.55	V
		I _F =300A, T _J =125°C	--	1.2	--	V
R _{θJC}	Thermal Resistance	Junction-to-Case	--	--	0.20	°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)

