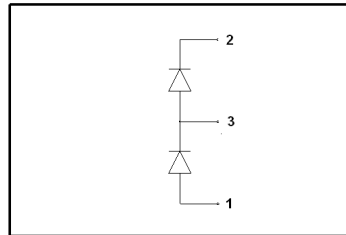


Rectifier Diode Module

Features

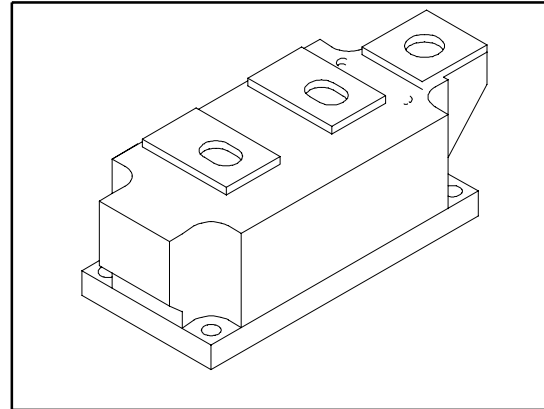
- International standard package
With ALN ceramic internal insulation
- High surge capability



V_{RRM} =1200~2400v
I_{FAVM} =2x600A
I_{FRMS} =2X940A

Benefits

- Supplies for DC power equipment
- DC supply for PWM inverter
- Field supply for DC motors
- Battery DC power supplies



Absolute Maximum Ratings

Symbol	Test Conditions	Max.	Units
V _{RRM}		2400	V
I _{FRMS}	T _{VJM} =150 °	940	A
I _{FAVM}	T _c =80°C;180° Sine	600	A
	T _c =100 °C;180° Sine	540	A
I _{FSM}	T _{vj} =45°C; t=10ms (50 Hz),sine	16800	A
	T _{vj} =150 °C; t=10ms (50 Hz),sine	14200	A
I ² t	T _{vj} =45°C; t=10ms (50 Hz),sine	1180000	A ² s
	T _{vj} =150 °C; t=10ms (50 Hz),sine	968000	A ² s
V _{ISOL}	RMS Isolation Voltage, Any Terminal To Case, t=1 min	3000	V
T _{vj}		-40 to +150	°C
T _{vjm}		150	
T _{STG}		-40 to +150	

Thermal/Mechanical Characteristics

	Parameter	Typ.	Max.	Units
R _{θJC}	thermal resistance , junction to case/per Module		0.043	° CW
		-		
			-	
	Mouting Torque, Case-to-Heatsink	-	6.0	N.m
	Mouting Torque, Case-to-Terminal 1,2 & 3	-	12.0	
	Weight of Module	-	1450	g

Electrical Characteristics (unless otherwise specified)

	Parameter	Min.	Typ.	Max.	Units	Conditions
I _R	Diode Leaking Current	-	-	5	mA	T _{VJ} =25°C V _R =V _{RRM}
		-	-	60	mA	T _{VJ} =150°C V _R =V _{RRM}
V _F	Diode Forward Voltage	-	-	1.50	v	I _F =1800 T _{VJ} =150°C
V _{TO}	For power-loss calculations only	-	-	0.8	V	T _{VJ} =150°C
r _T		-	-	0.32	mΩ	

Case Outline-TG4

