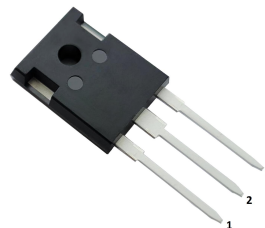


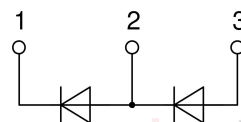
Features

- Planar passivated chips
- Very low leakage current
- Very low forward voltage drop
- Improved thermal behaviour



Applications

- Diode for main rectification
- For single and three phase bridge configurations



Absolute Maximum Ratings(T_c=25°C)

Parameter	Symbol	Test Conditions		Values	Unit
Repetitive Peak Reverse Voltage	V _{RRM}			1200	V
Reverse current,drain current	I _R	V _R =1200V	T _C =25°C	40	μA
			T _C =125°C	1.5	mA
Forward voltage drop (per)	V _F	I _F =45A	T _C =25°C	1.26	V
		I _F =90A		1.57	V
Surge Current	I _{FAV}	T _C =125°C		45	A
Threshold voltage	V _{F0}	For power loss calculation only T _C =125°C		0.81	V
Slope resistance	r _F			9.1	mΩ
Forward surge current	I _{FSM}	T=10ms,(50Hz),sine, V _R =0V		480	A
Value for fusing	I ² t	T=10ms,(50Hz),sine, V _R =0V		1.15	KA ² S
Power Dissipation	P _{tot}			270	W
Junction Temperature	T _J			-40~175	°C
Storage Temperature Range	T _{STG}			-40~150	
Thermal Resistance junction to case	R _{θJC}			0.55	KW
Thermal Resistance case to heatsink	R _{θch}			0.3	KW

Electrical Characteristics(T_c=25°C unless otherwise specified)

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
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Junction capacitance	C_J	$V_R=400V$ $f=1MHz$	-	18	-	pF
Mounting torque	M_D		0.8	-	1.2	Nm
Mounting force with clip	F_C		20		120	N

Electrical characteristics(Curves)

