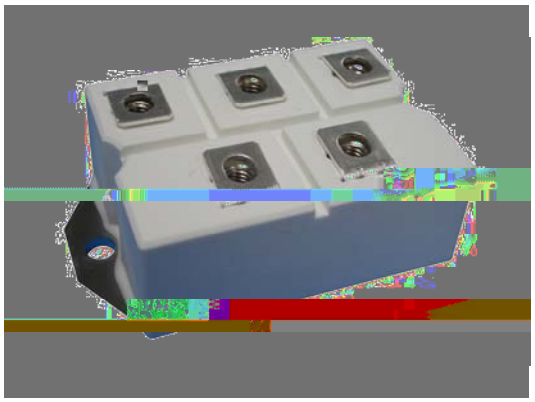
MD130S-M3

RoHS COMPLIANT



Module Type

TYPE	VRRM	VRSM
MD130S08M3	800V	900V
MD130S12M3	1200V	1300V
MD130S16M3	1600V	1700V
MD130S18M3	1800V	1900V

Maximum Ratings

Symbol	Conditions	Values	Units
I_D	Three phase, full wave Tc=100	130	A
I_{FSM}	t=10mS Tvj =45	1200	A
i^2t	t=10mS Tvj =45	7200	A^2s
V_{isol}	a.c.50HZ;r.m.s.;1min	3000	V
T_{vj}		-40 to +150	
T_{stg}		-40 to +125	
Mt	To terminals(M6)	5±15%	Nm
Ms	To heatsink(M6)	5±15%	Nm
Weight	Module	230	g

Electrical Characteristics

Symbol	Conditions	Values			Units
		Min.	Typ.	Max.	
r_f	T_J=150	-	2.75	-	mΩ
V_{fO}	T_J=150	-	0.77	-	V
V_{FM}	T=25 I_F =300A		1.58	1.80	V
I_{RD}	T_{vj}=25 V_{RD}=V_{RRM} T_{vj}=150 V_{RD}=V_{RRM}			0.3 5	mA mA

Performance Curves

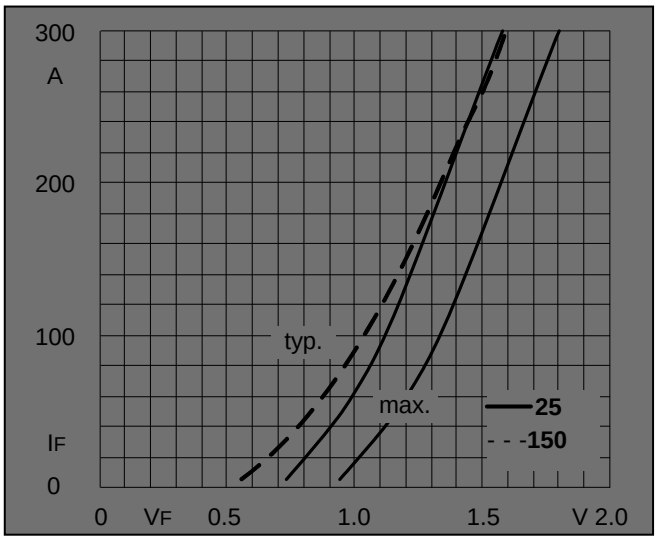


Fig1. Forward Characteristics

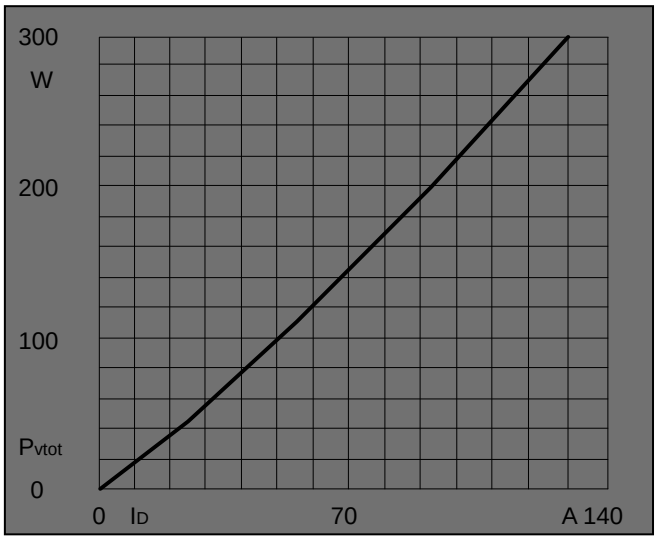


Fig2. Power dissipation

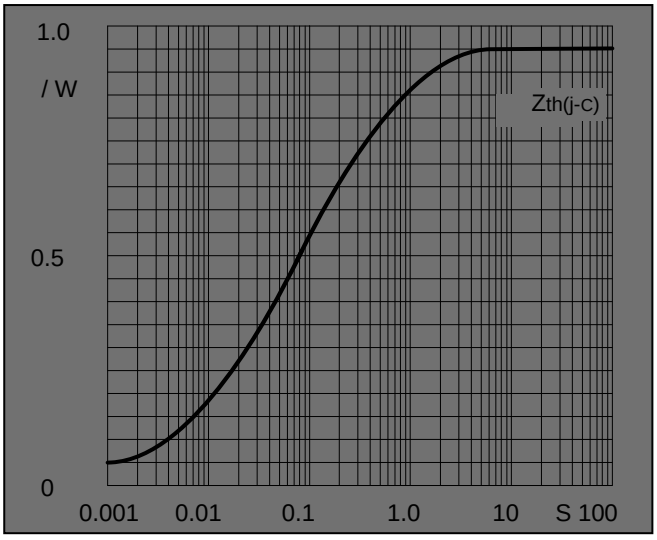


Fig3. Transient thermal impedance

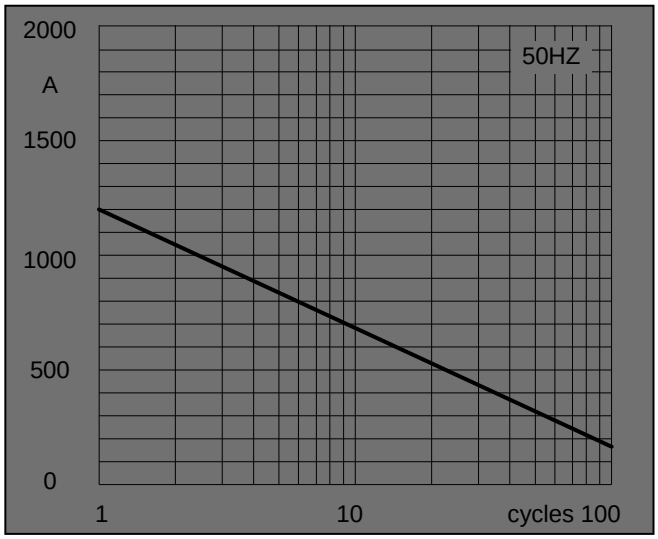


Fig4. Max Non-Repetitive Forward Surge Current

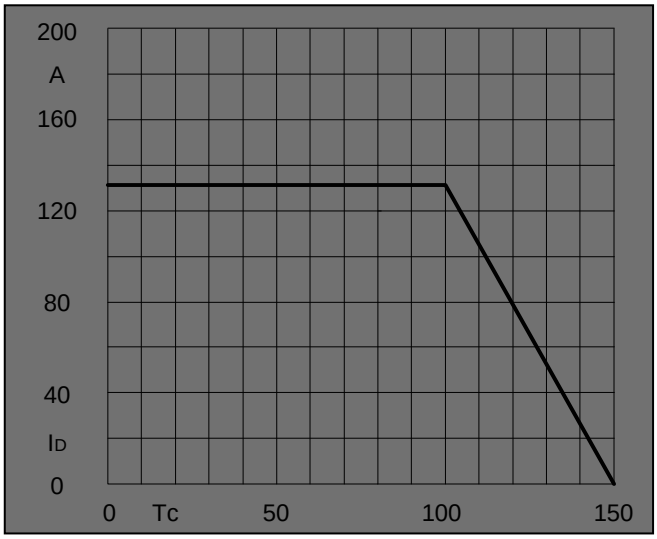
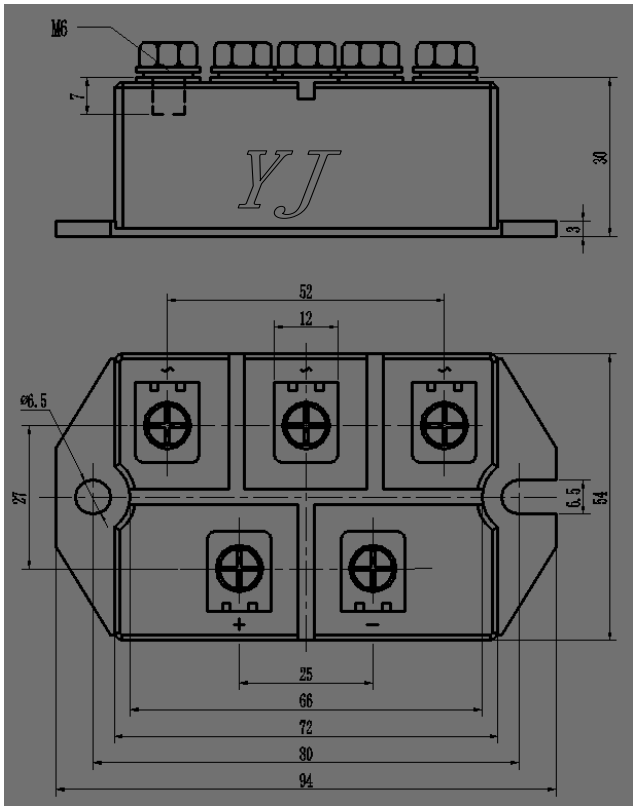


Fig5.Forward Current Derating Curve

Package Outline Information

CASE M3



Dimensions in mm