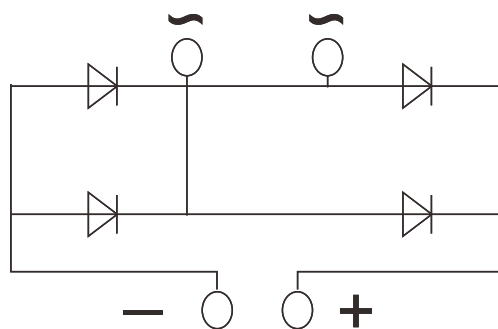


SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_j(^{\circ}\text{C})$	VALUE			UNIT
				M in	Type	M ax	
I_O	DC output current	Three-phase full wave rectifying circuit, $T_C=100^{\circ}\text{C}$	125		120		A
V_{RRM}	Repetitive peak reverse voltage	$V_{RRM} \text{ tp}=10\text{ms}$ $V_{RSM}=V_{DRM}\&V_{RRM}+200\text{V}$	125		600		V
I_{RRM}	Repetitive peak current	at V_{RRM}	125			1	mA
I_{FSM}	Surge forward current	10ms half sine wave	125			1.92	KA
I^2t	I^2T for fusing coordination	$V_R=0.6V_{RRM}$				5.52	$\text{A}^2\text{s}\cdot 10^3$
V_{FO}	Threshold voltage		125			0.80	V
r_F	Forward slop resistance					4.0	$\text{m}\Omega$
V_{FM}	Peak forward voltage	$I_{FM}=120\text{A}$	25			1.40	V
t_{rr}	Reverse Recovery time	$I_F=1\text{A}$, $V_R=30\text{V}$, $di_F/dt=-200\text{A}/\mu\text{s}$				60	ns
$R_{th(j-c)}$	Thermal resistance Junction to heatsink	Single side cooled				0.250	$^{\circ}\text{C}/\text{W}$
V_{iso}	Isolation voltage	50Hz, R.M.S, $t=1\text{min}$, $I_{iso}:1\text{mA}(\text{max})$		3000			V
F_m	Terminal connection torque(M5)				5.0		N.m
	Mounting torque(M6)				5.0		N.m
T_{stg}	Stored temperature			-40		150	$^{\circ}\text{C}$
W_t	Weight				174		g
Outline							

OUTLINE DR AWING & CIRCUIT DIAGRAM



Rating and Characteristic

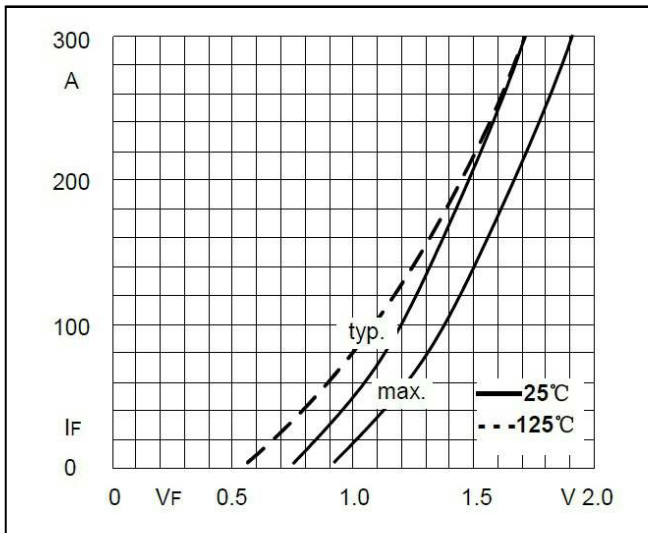


Fig1. Forward Characteristics

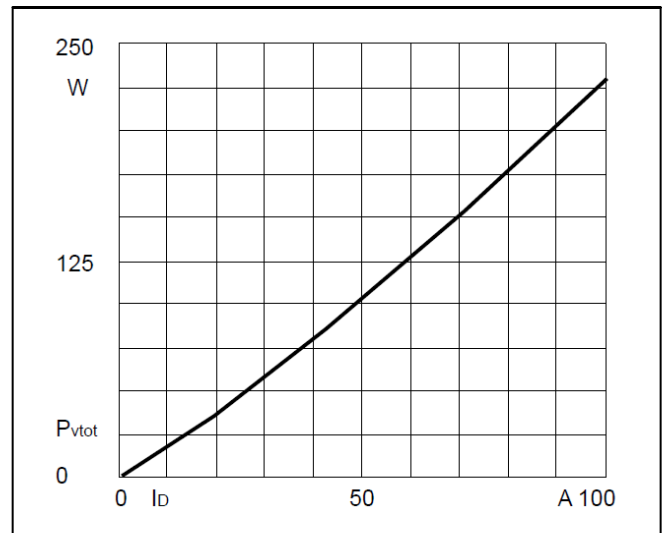


Fig2. Power dissipation

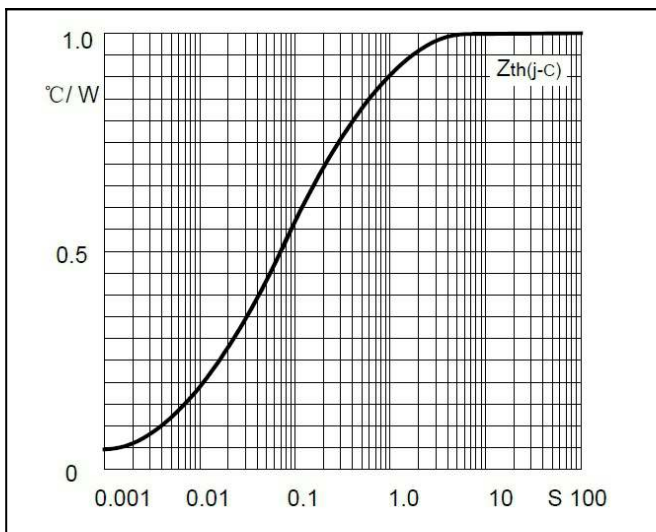


Fig3. Transient thermal impedance

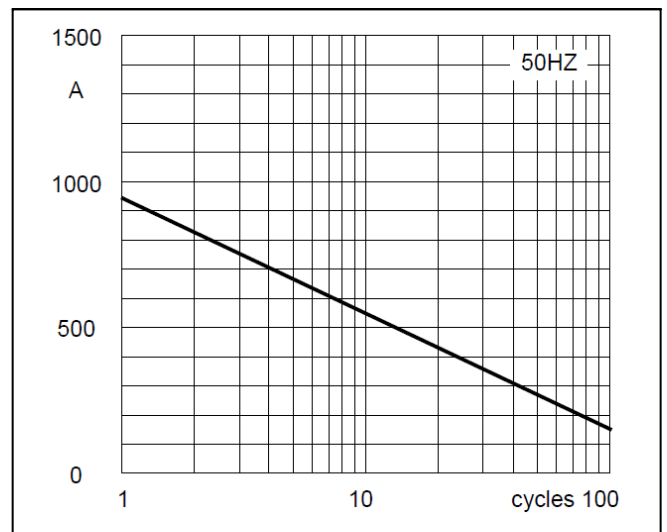


Fig4. Max Non-Repetitive Forward Surge Current

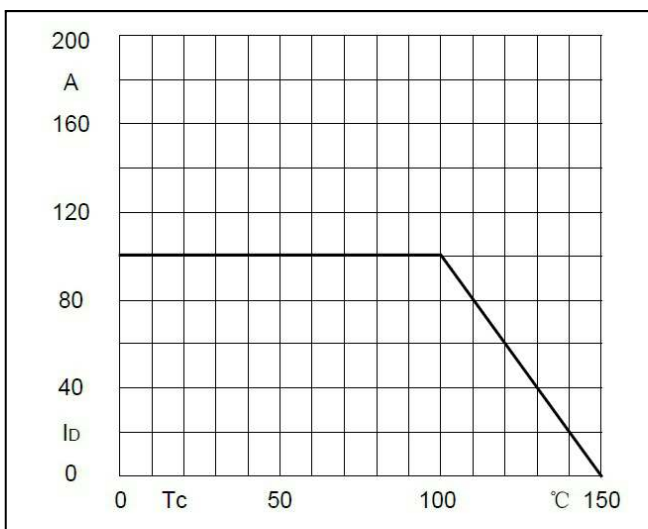


Fig5. Forward Current Derating Curve

Technical drawing of a mechanical part with dimensions:

- Overall width: 81 ± 0.1
- Overall height: 41 ± 0.1
- Top flange width: 66 ± 0.3
- Top flange thickness: $6,5 \pm 0.2$
- Top flange hole diameter: $\phi 6,5 \pm 0.2$
- Top flange hole position: 30 (center-to-center), 12 (edge-to-center)
- Top flange hole diameter: 21 ± 0.1
- Top flange hole position: 21 ± 0.1 (center-to-center), 41 ± 0.1 (edge-to-center)
- Top flange hole diameter: 11 ± 0.1
- Top flange hole position: 4 ± 0.2 (edge-to-center), 20 ± 0.1 (center-to-center)
- Top flange hole diameter: 4 ± 0.2
- Top flange hole position: 4 ± 0.2 (edge-to-center), 20 ± 0.1 (center-to-center)
- Top flange hole diameter: 4 ± 0.2
- Top flange hole position: 4 ± 0.2 (edge-to-center), 20 ± 0.1 (center-to-center)

