



AC converter, inverter and DC motor.

(Packaged into modules, unless otherwise specified, T_{CASE}=25)

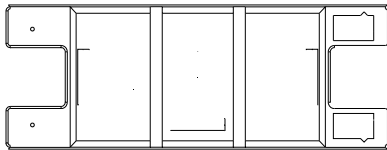
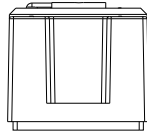
			12	16	18	20	
Operating junction temperature range		T _j	-40-150				
Storage temperature range		T _{stg}	-40-125				
Repetitive peak reverse voltage	T _j =25	V _{RRM}	1200	1600	1800	2000	V
Non-repetitive peak reverse voltage	T _j =25	V _{RSM}	1300	1700	1900	2100	V
Average forward current	T _C =100	I _{F(AV)}	240				A
Peak forward surge current	t _p =10ms, sin180°,	I _{FSM}	7840				A
I ² t value for fusing	T _j =25	I ² t	307000				A ² s
Insulation voltage	A.C 50Hz(1s/1min)	V _{ISO}	3600/3000				V

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Peak forward voltage	I _F =720A, t _p =380μs	V _{FM}	1.6				V
Threshold voltage	T _j =150	V _{TO}	0.78				V
Dynamic resistance	T _j =150	R _d	1.05				m
P p titive p ak	V _R =V _P	I _{P 1} I _{P 2}	100				μA
	T _j =25 nt T _j =150		90				mA
Thermal resistance(Per chip)	Junction to case	R _{th(j-c)}	0.13				/W
	Case to heatsink	R _{th(c-s)}	0.05				



Module size	94mm×34.3mm
Module height	30.3mm
Terminal distance of (1) /(2) /(3)	23mm
Mounting torque(M5)	5±15%Nm
Terminal torque(M6)	5±15%Nm





JS

KD

240

/

16

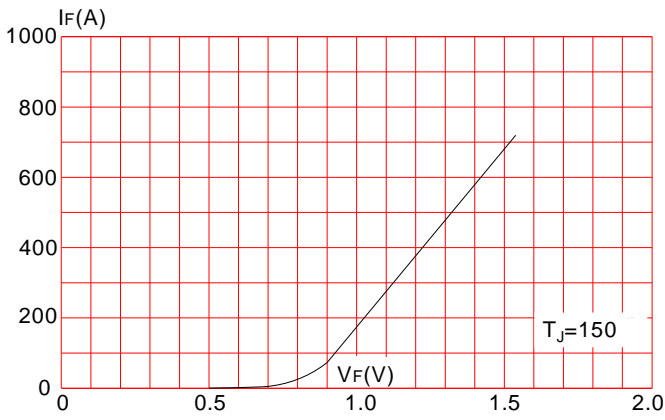
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KD:Diode Module
 MD:Common Cathode Diode Module
 ND:Common Anode Diode Module

$I_{F(AV)}=240A$

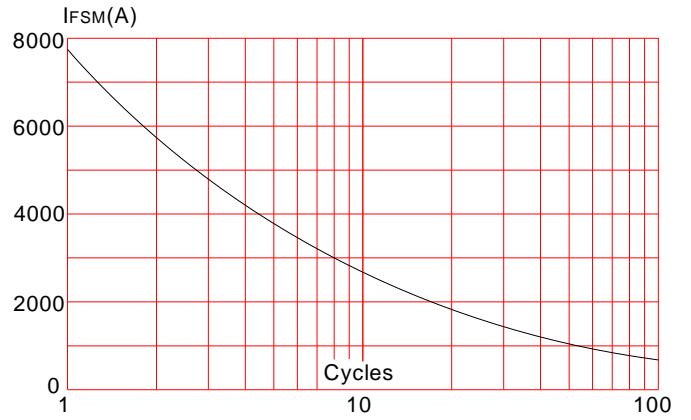
12:V_{RSM} 1300V
 16:V_{RSM} 1700V
 18:V_{RSM} 1900V
 20:V_{RSM} 2100V

Forward characteristics(per diode)

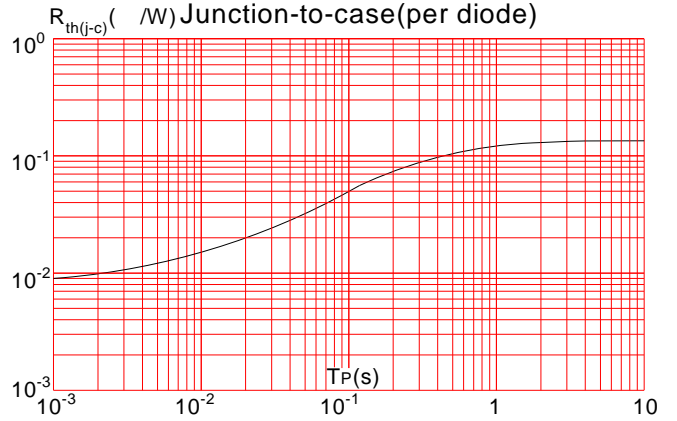
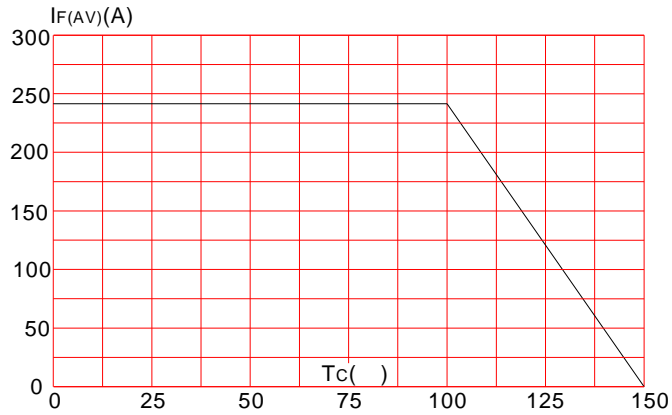


Forward current vs. case temperature

Peak on-state surge current



Maximum transient thermal impedance






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