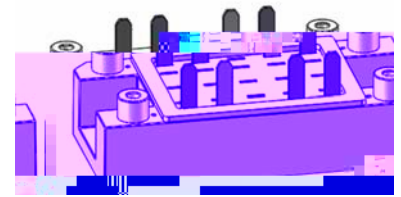


- 1) A package of series of two diodes.
- 2) Heat transfer through alumina ceramic and metal substrate.
- 3) Welding by vacuum welding technology, which provide high reliability.



### 5Vgc` i hY` AUI]a i a` FUh]b [g`

V1-A-Pack

AC converter, inverter and DC motor.

5Vgc` i hY` AUI]a i a` FUh]b [g` (Packaged into V1-A-Pack, unless otherwise specified,  $T_{CASE}=25$  )

DUfU a YhYf`	HYgh` 7 cbX]h]cbg`	Gm a Vc``	JU` i Yg			I b]h
			16	18	20	
Operating junction temperature range		$T_j$	-40-150			
Storage temperature range		$T_{stg}$	-40-125			
Repetitive peak reverse voltage	$T_j=25$	$V_{RRM}$	1600	1800	2000	V
Non-repetitive peak reverse voltage	$T_j=25$	$V_{RSM}$	1700	1900	2100	V
Average on-state current	$T_C=100$	$I_{F(AV)}$	120			A
Peak on-state surge current	$T_j=25$ , $t_p=10ms$ , $\sin 180^\circ$	$I_{FSM}$	3360			A
$I^2t$ value for fusing		$I^2t$	56400			$A^2s$
Insulation voltage	A.C 50Hz(1s/1min)	$V_{ISO}$	3600/3000			V

9`YWhf]WU` 7 \UfUWhYf]gh]Wg` (Packaged into V1-A-Pack, unless otherwise specified,  $T_{CASE}=25$  )

DUfU a YhYf`	HYgh` 7 cbX]h]cbg`	Gm a Vc``	JU` i Yg	I b]h
Peak on-state voltage	$I_F=360A$ $t_p=380\mu s$	$V_F$	1.6	V
Threshold voltage	$T_j=150$	$V_{TO}$	0.85	V
Dynamic resistance	$T_j=150$	$R_d$	1.5	m
Repetitive peak reverse current	$V_R=V_{RRM}$ $T_j=25$	$I_{RRM1}$	100	$\mu A$
	$T_j=150$	$I_{RRM2}$	40	mA
Thermal resistance	Junction to case	$R_{th(j-c)}$	0.29	/W
	Case to heatsink	$R_{th(c-s)}$	0.12	





CfXYf]b [ ' =bZcf a Uh]cb'

**JS 120**

**K3 /16**

JieJie Semiconductor Co.,Ltd

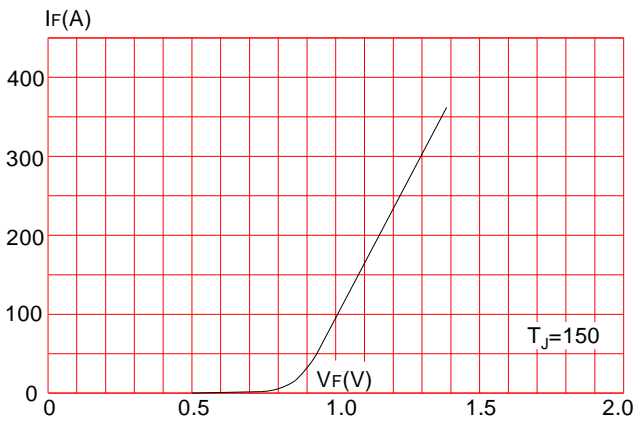
$I_{F(AV)}=120A$

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

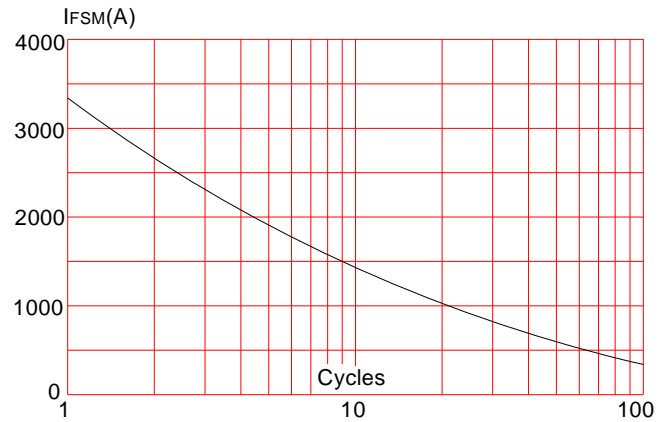
Diode Module

DYfZcf a UbWY' 7 if jYg'

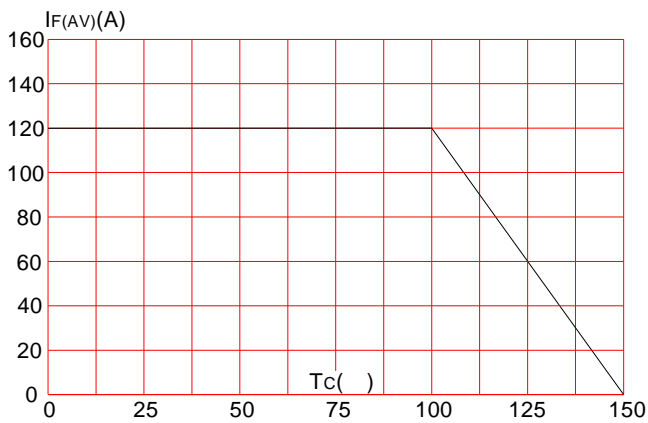
Forward characteristics(per diode)



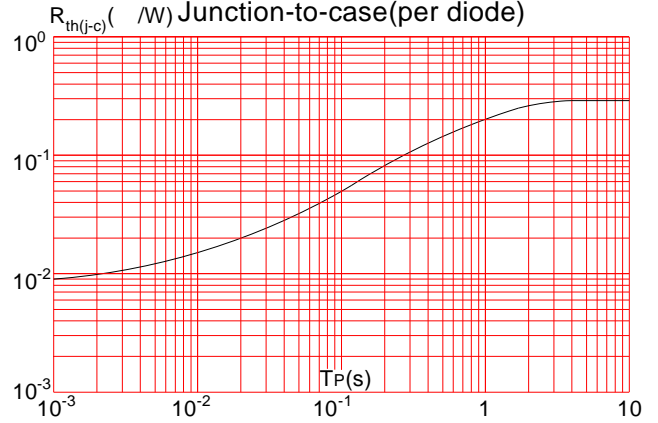
Peak on-state surge current



Forward current vs. case temperature



Maximum transient thermal impedance






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