

Feature

- Hermetic ceramics-metal stud structure
- Conform to national standard JB/T8949.2-1998
- Capacity of supporting high surge current
- Stud cathode and strd anode version

Typical Application

- DC motor controls Controls DC power supplie
- AC switch and thermal control Synchronous motor exditation

$I_{F(AV)}$	5A
V_{RRM}	100-5000V
I_{FSM}	8.25 KA
I^2t	580 A ² s

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T_J (°C)	VALUE		UNIT	
				Min	Max		
$I_{F(AV)}$	Mean forward current	180° half sine wave, 50HZ Single heat sink, $T_C=98^\circ\text{C}$	150		10	A	
$I_{F(RMS)}$	RMS current		150		50	A	
V_{RRM}	Repetitive peak reverse voltage	$V_{DRM}\&V_{RRM}$ tp=10ms $V_{DSM}\&V_{RSM}=V_{DRM}\&V_{RRM}+20\%$	150	100	5000	V	
I_{RRM}	Repetitive peak current	$V_{RM}=V_{RRM}$	150		12	mA	
I_{FSM}	Surge on-state current	10ms half sine wave	150		8.25	KA	
I^2t	I^2t for fusing	$V_R=0.6V_{RRM}$				580	A ² s
V_{TO}	Threshold voltage		150		0.9	V	
r_T	On-state slop resistance					5.7	mΩ
V_{FM}	Peak on-state voltage	$I_{TM}=30A, F=9.0KN$	150		1.3	V	
I_{rm}	Reverse recovery current	$I_{TM}=30A, tq=1000us$ $Di/dt=-20A/us.$ $V_r=50V$	150		70	A	
t_{rr}	Reverse recovery time					4.0	us
Q_{rr}	Recovered charge						140
$R_{th(j-h)}$	Thermal impedance node to the shell	180 ° sine wave, single heat sink			0.090	°C/W	
F_M	Mounting force				37	N	
T_{stq}	Stored temperature			-65	200	°C	
W_t	Weight			25		g	
Outline							

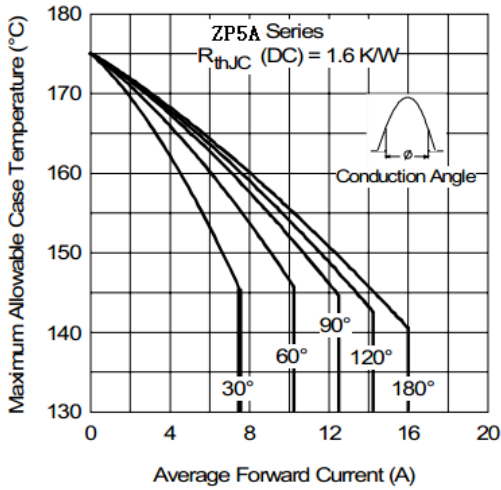


Fig. 1 - Current Ratings Characteristics

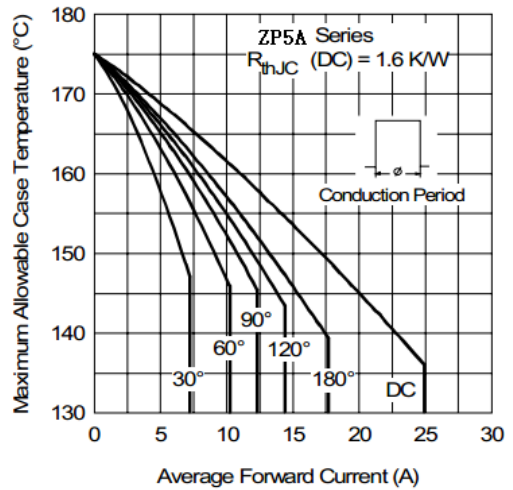


Fig. 2 - Current Ratings Characteristics

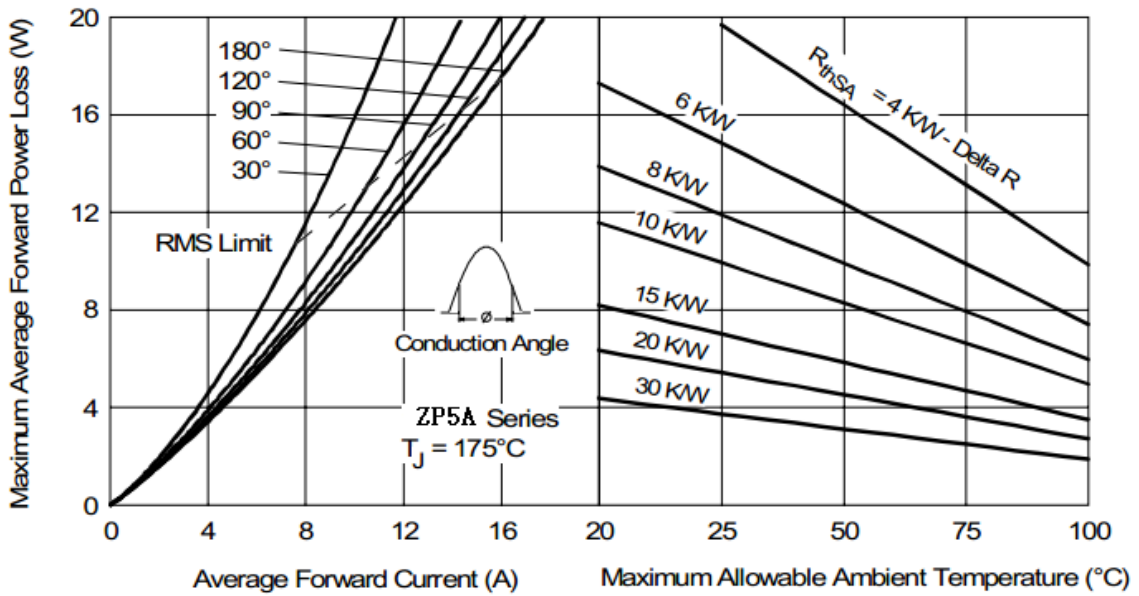


Fig. 3 - Forward Power Loss Characteristics

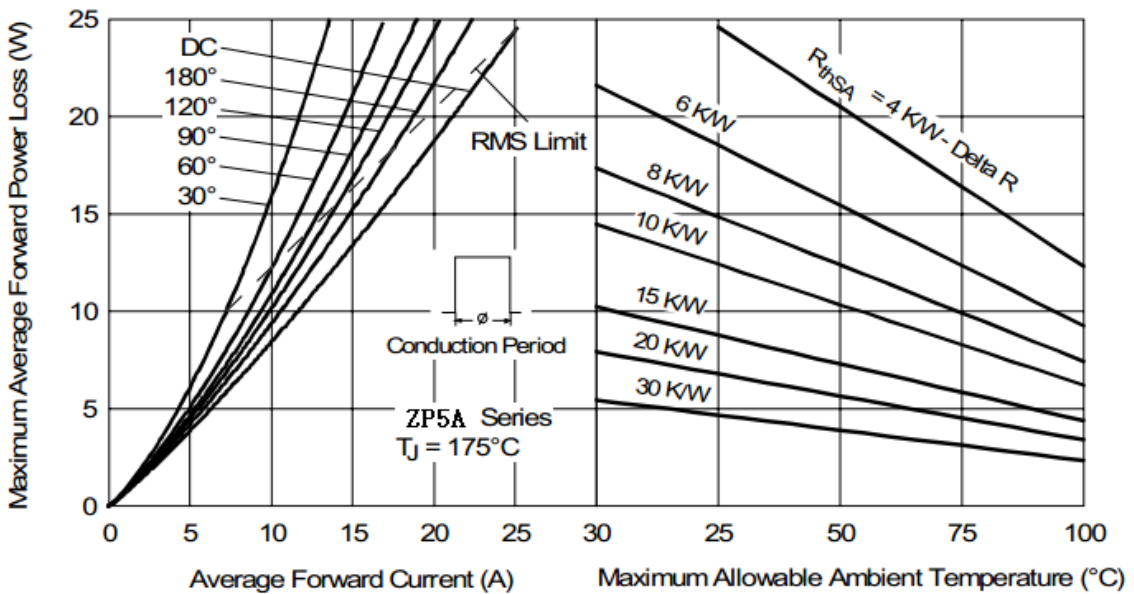


Fig. 4 - Forward Power Loss Characteristics

