

Features:

- Isolated mounting base 3000V~
- Pressure contact technology with Increased power cycling capability
- Space and weight savings

Typical Applications

- AC/DC Motor drives
- Various rectifiers
- DC supply for PWM inverter

$I_{T(AV)}$ **26A**
 V_{DRM}/V_{RRM} **1900~2500V**
 I_{TSM} **$0.65A \times 10^3$**
 I^2t **$2.10A^2 S \times 10^3$**



SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_f(^{\circ}C)$	VALUE			UNIT
				Min	Type	Max	
$I_{T(AV)}$	Mean on-state current	180° half sine wave 50Hz Single side cooled, $T_c=85^{\circ}C$	125			26	A
$I_{T(RMS)}$	RMS on-state current		125			41	A
V_{DRM} V_{RRM}	Repetitive peak off-state voltage Repetitive peak reverse voltage	$V_{DRM} \& V_{RRM}$ tp=10ms $V_{DSM} \& V_{RSM} = V_{DRM} \& V_{RRM} + 100V$ respectively	125	1900		2500	V
I_{DRM} I_{RRM}	Repetitive peak current	at V_{DRM} at V_{RRM}	125			10	mA
I_{TSM}	Surge on-state current	10ms half sine wave	125			0.65	KA
I^2t	I^2T for fusing coordination	$V_R=60\%V_{RRM}$				2.10	$A^2s \times 10^3$
V_{TO}	Threshold voltage		125			0.85	V
r_T	On-state slop resistance					9.68	$m\Omega$
V_{TM}	Peak on-state voltage	$I_{TM}=80A$	25			1.82	V
dv/dt	Critical rate of rise of off-state voltage	$V_{DM}=67\%V_{DRM}$	125			800	$V/\mu s$
di/dt	Critical rate of rise of on-state current	$I_{TM}=110A$, Gate source 1.5A $t_r \leq 0.5\mu s$ Repetitive	125			50	$A/\mu s$
I_{GT}	Gate trigger current	$V_A=12V$, $I_A=1A$	25	30		100	mA
V_{GT}	Gate trigger voltage			0.8		2.5	V
I_H	Holding current			20		150	mA
V_{GD}	Non-trigger gate voltage	$V_{DM}=67\%V_{DRM}$	125	0.2			V
$R_{th(j-c)}$	Thermal resistance Junction to case	Single side cooled				0.95	$^{\circ}C/W$
$R_{th(c-h)}$	Thermal resistance case to heat sink	Single side cooled				0.2	$^{\circ}C/W$
V_{iso}	Isolation voltage	50Hz,R.M.S., $t=1min$, $I_{iso}:1mA(MAX)$	3000				V
F_m	Thermal connection torque (M5)				4.0		$N \cdot m$
	Mounting torque (M6)				6.0		$N \cdot m$
T_{stg}	Stored temperature		-40			125	$^{\circ}C$
W_t	Weight				115		g
Outline	215F3/223F3						

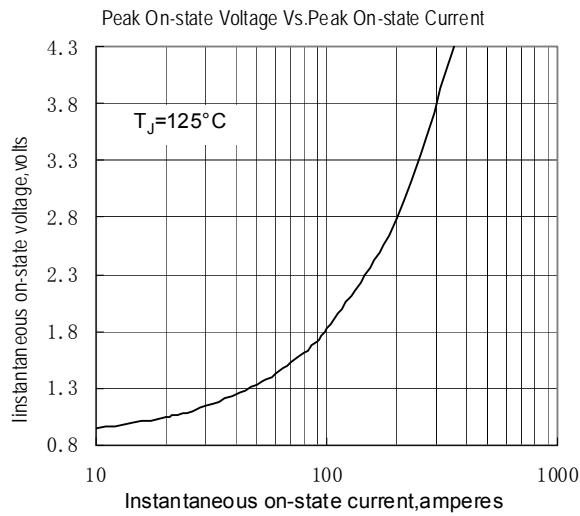


Fig.1

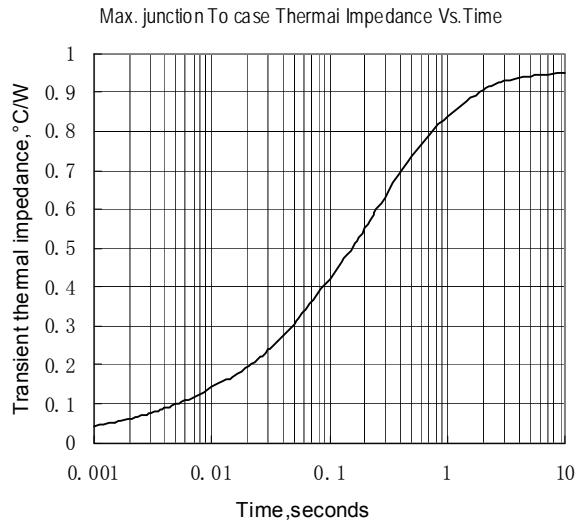


Fig.2

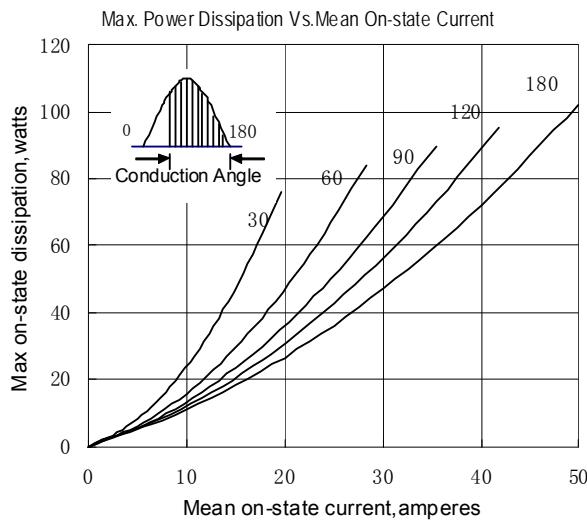


Fig.3

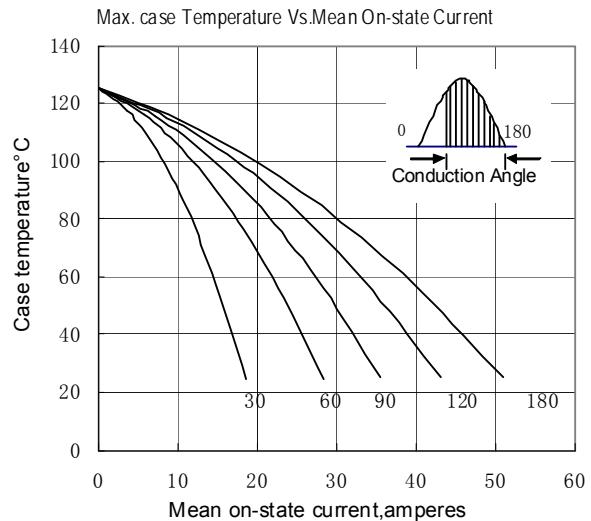


Fig.4

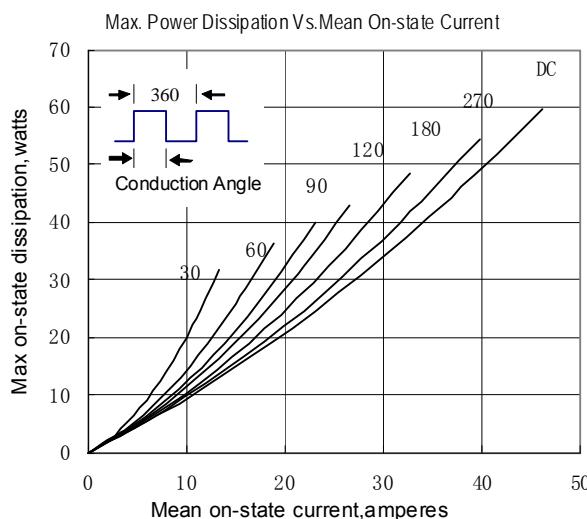


Fig.5

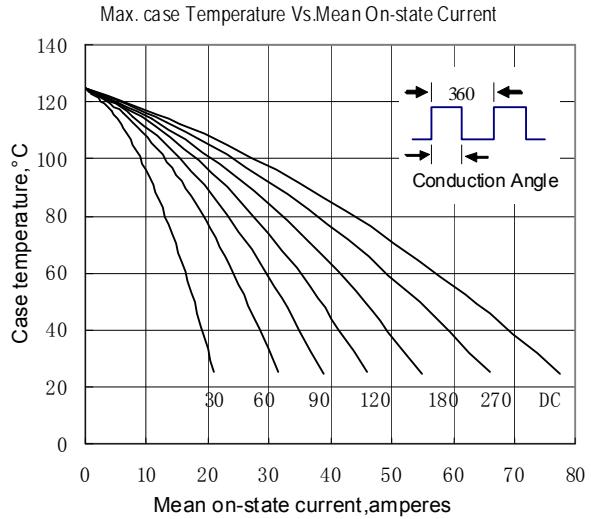


Fig.6

TECHSEM

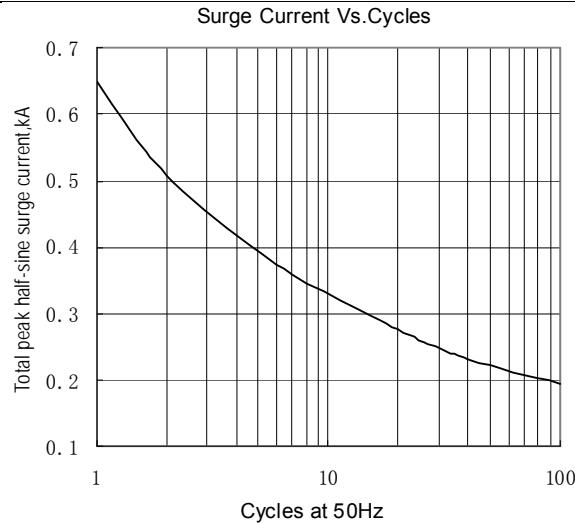


Fig.7

MFC26 MFA26 MFK26 MFZ26

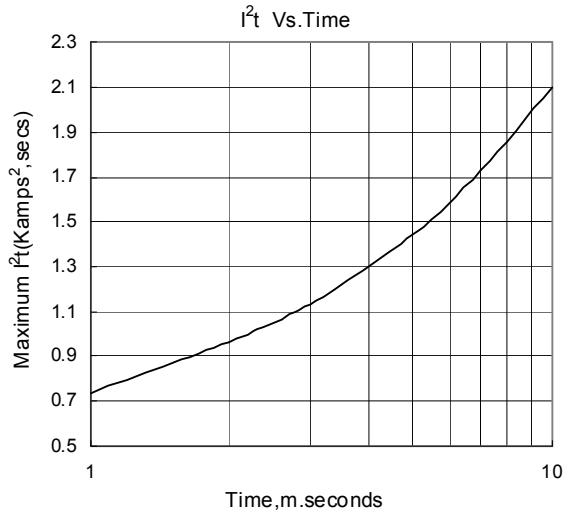


Fig.8

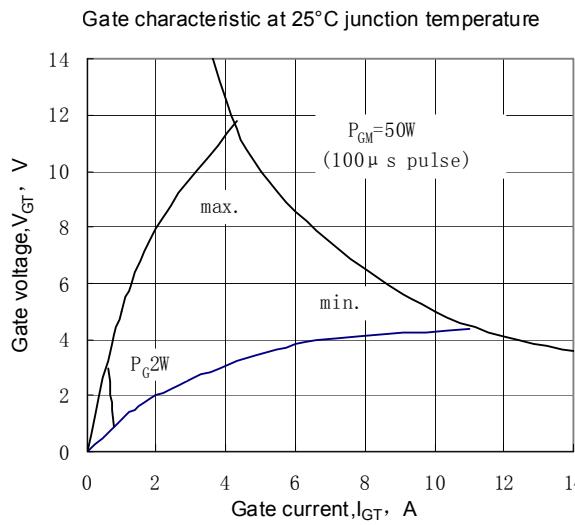


Fig.9

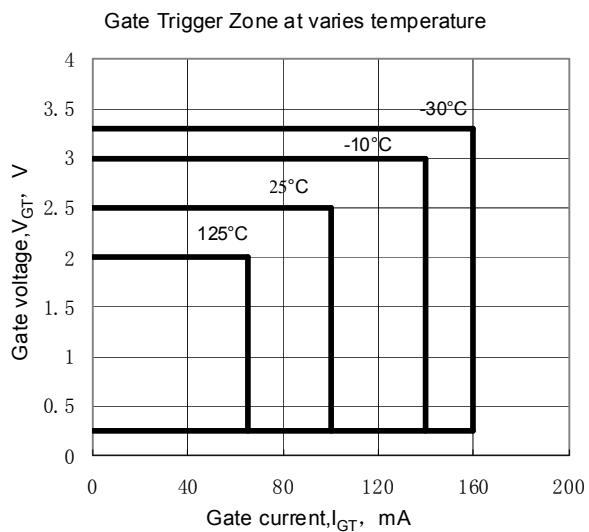


Fig.10

Outline:

