

### Features:

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

### Typical Applications

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

$V_{RSM}$	$V_{RRM}$	Type & Outline
900V	800V	MD600-08-433F2
1100V	1000V	MD600-10-433F2
1300V	1200V	MD600-12-433F2
1500V	1400V	MD600-14-433F2
1700V	1600V	MD600-16-433F2
1900V	1800V	MD600-18-433F2

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_j(^{\circ}C)$	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Single side cooled, $T_C=100^{\circ}C$	150			500	A
$I_{F(RMS)}$	RMS forward current		150			785	A
$V_{RRM}$	Repetitive peak reverse voltage	$V_{RRM} t_p=10ms$ $V_{RSM}=V_{RRM}+100V$	150	600		1800	V
$I_{RRM}$	Repetitive peak current	at $V_{RRM}$	150			45	mA
$I_{FSM}$	Surge forward current	10ms half sine wave	150			19.0	KA
$I^2t$	$I^2T$ for fusing coordination	$V_R=0.6V_{RRM}$				1805	$A^2s \cdot 10^3$
$V_{FO}$	Threshold voltage		150			0.75	V
$r_F$	Forward slop resistance					0.28	m $\Omega$
$V_{FM}$	Peak forward voltage	$I_{FM}=1800A$	25			1.50	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180°sine' Single side cooled per chip				0.065	$^{\circ}C/W$
$R_{th(c-h)}$	Thermal resistance case to heatsink	At 180°sine' Single side cooled per chip				0.024	$^{\circ}C/W$
$V_{iso}$	Isolation voltage	50Hz, R.M.S, t=1min, $I_{iso}: 1mA(max)$		3000			V
$F_m$	Terminal connection torque(M10)				12.0		N·m
	Mounting torque(M6)				6.0		N·m
$T_{stg}$	Stored temperature			-40		125	$^{\circ}C$
$W_t$	Weight				765		g
Outline	433F2						

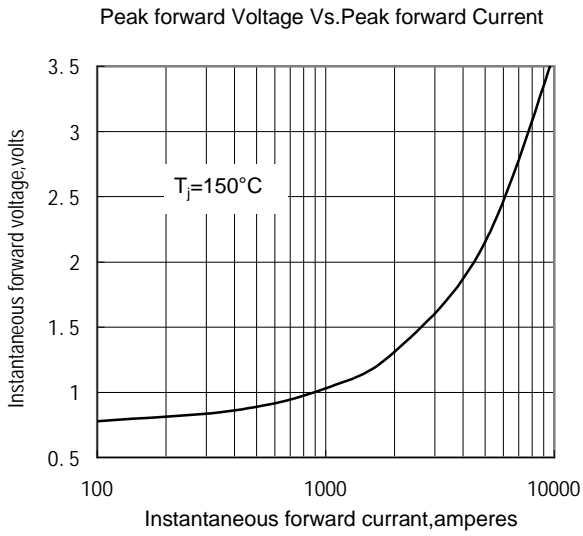


Fig.1

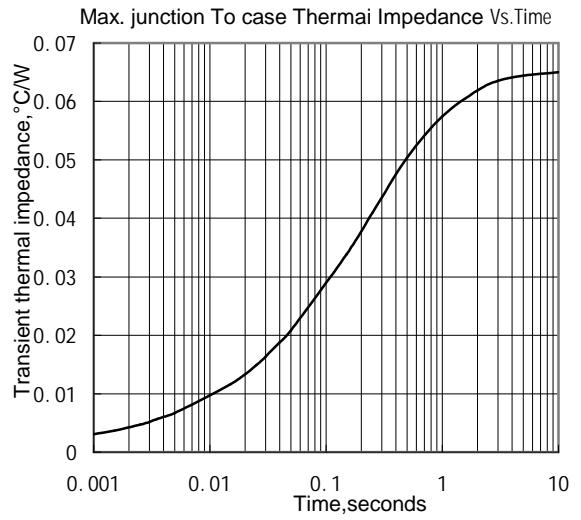


Fig.2

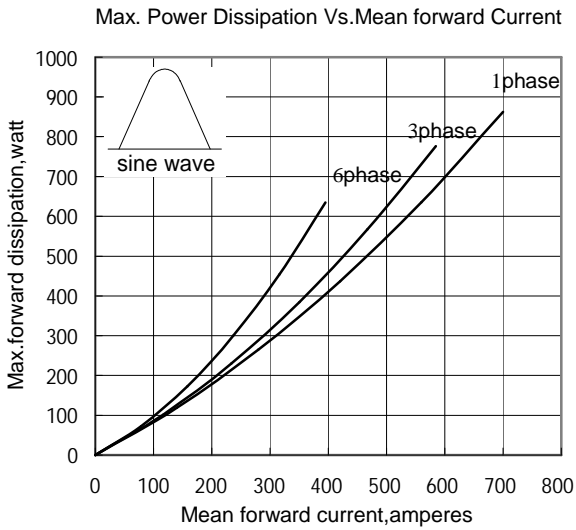


Fig.3

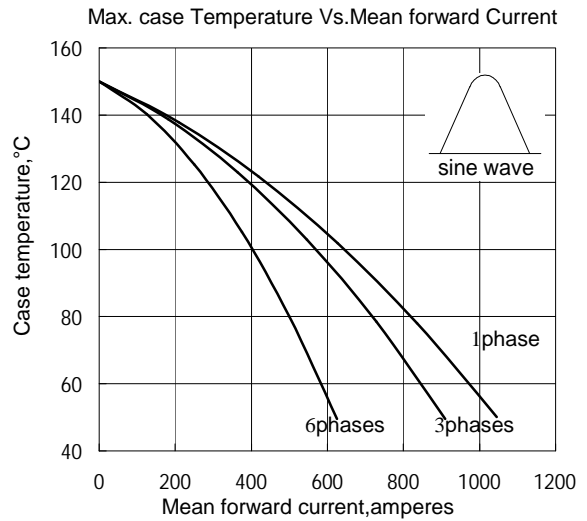


Fig.4

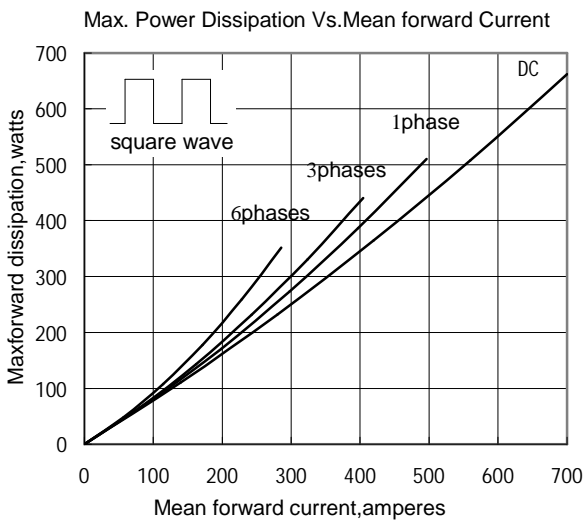


Fig.5

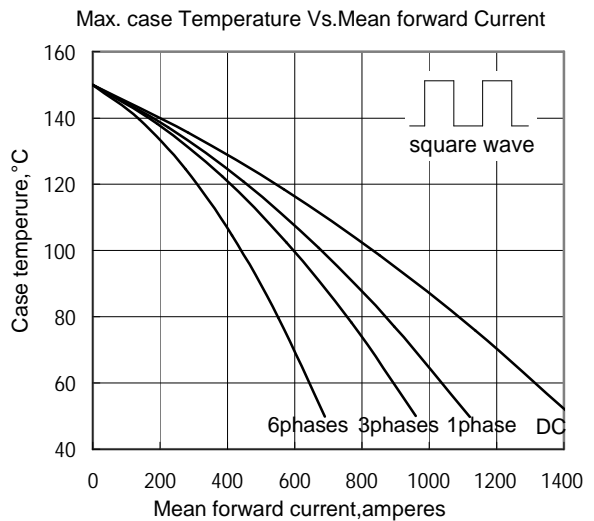
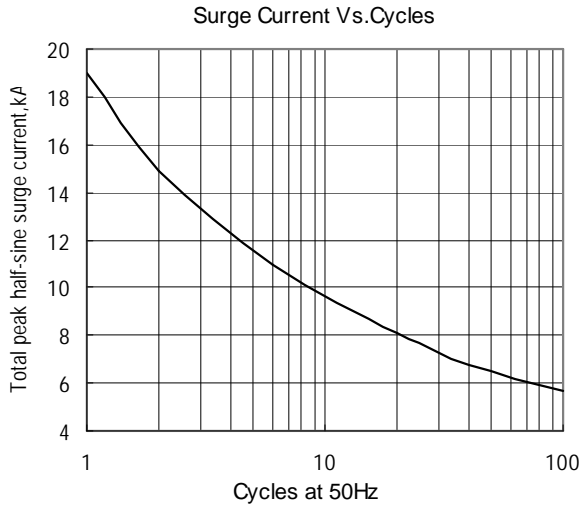
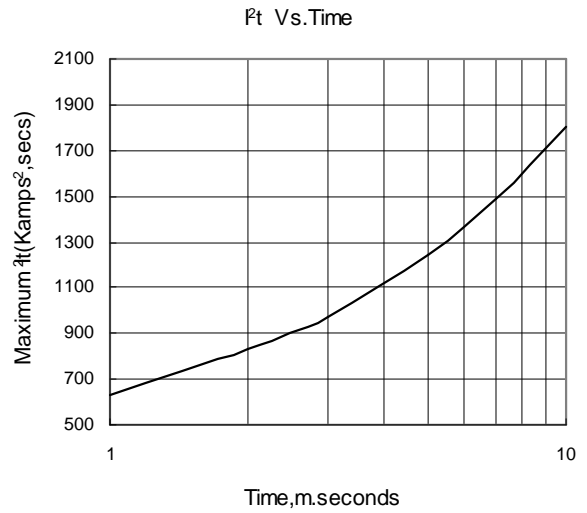


Fig.6

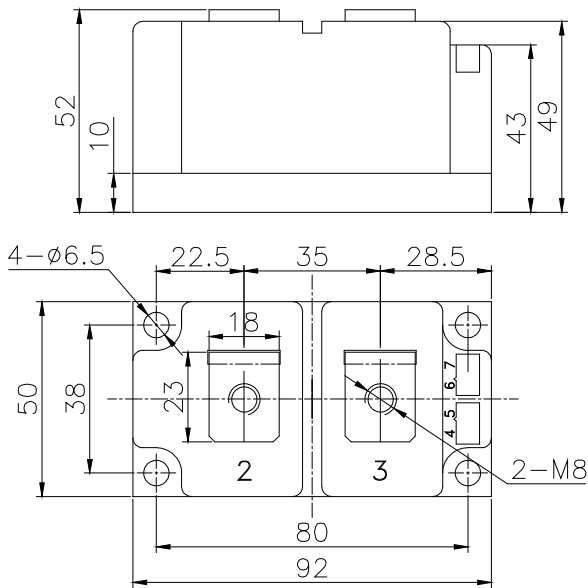


**Fig.7**



**Fig.8**

**Outline:**



**433F2**

