

MDC135 MDA135 MDK135 MD135

Diode Modules

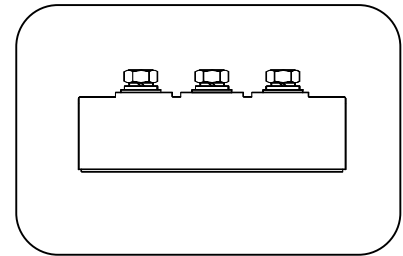
Features:

- n Isolated mounting base 2500V~
- n Pressure contact technology with Increased power cycling capability
- n Space and weight savings

Typical Applications

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

$I_{F(AV)}$ **135A**
 V_{RRM} **600~1800V**
 I_{FSM} **$3.90\text{ A} \times 10^3$**
 I^2t **$77.5\text{ A}^2\text{ S} \times 10^3$**



SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_j(^{\circ}\text{C})$	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Single side cooled, $T_C=100^{\circ}\text{C}$	150			135	A
$I_F(RMS)$	RMS forward current		150			212	A
V_{RRM}	Repetitive peak reverse voltage	V_{RRM} tp=10ms $V_{RSM} = V_{RRM} + 200\text{V}$	150	600		1800	V
I_{RRM}	Repetitive peak current	at V_{RRM}	150			12	mA
I_{FSM}	Surge forward current	10ms half sine wave	150			3.90	KA
I^2t	I^2T for fusing coordination	$V_R=0.6V_{RRM}$				77.5	$\text{A}^2\text{S} \times 10^3$
V_{FO}	Threshold voltage		150			0.80	V
r_F	Forward slop resistance					1.18	mΩ
V_{FM}	Peak forward voltage	$I_{FM}=410\text{A}$	25			1.38	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine: Single side cooled				0.310	$^{\circ}\text{C} / \text{W}$
$R_{th(c-h)}$	Thermal resistance case to heat sink	At 180° sine: Single side cooled				0.08	$^{\circ}\text{C} / \text{W}$
V_{iso}	Isolation voltage	50Hz, R.M.S, t=1min, $I_{iso}:1\text{mA}(\text{max})$		2500			V
F_m	Terminal connection torque (M6)				6		N·m
	Mounting torque (M6)				6		N·m
T_{stg}	Stored temperature			-40		125	$^{\circ}\text{C}$
W_t	Weight				320		g
Outline	214F3/216F3						

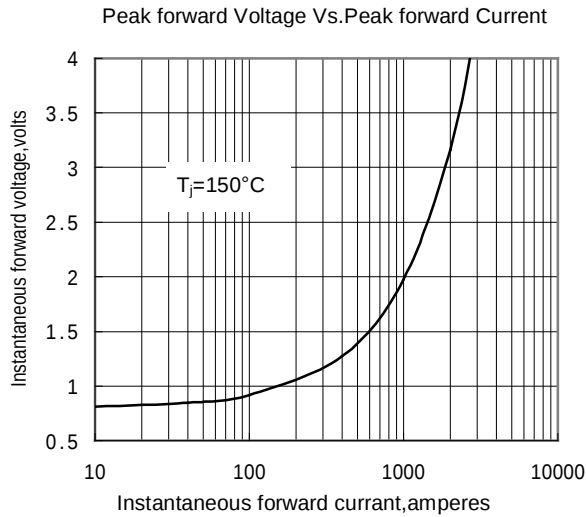


Fig.1

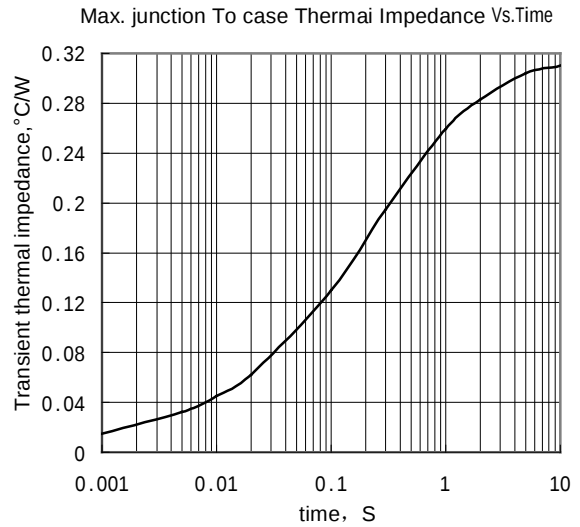


Fig.2

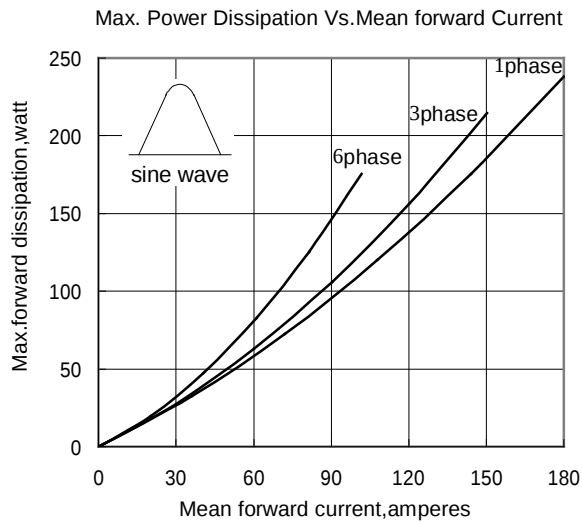


Fig.3

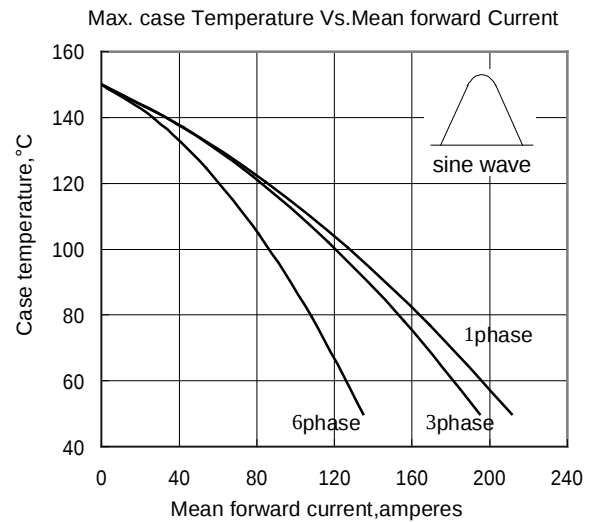


Fig.4

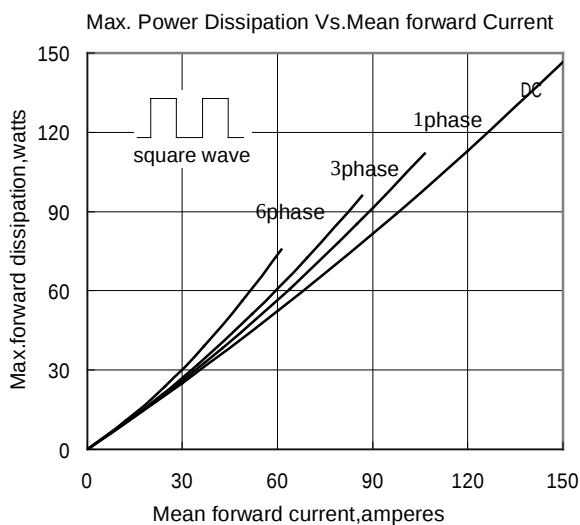


Fig.5

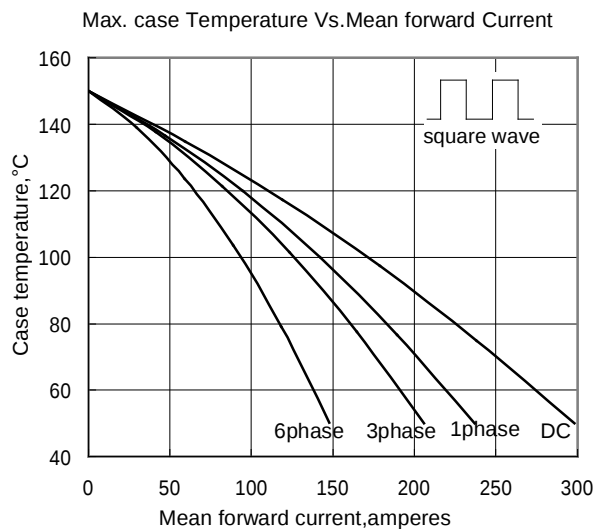


Fig.6

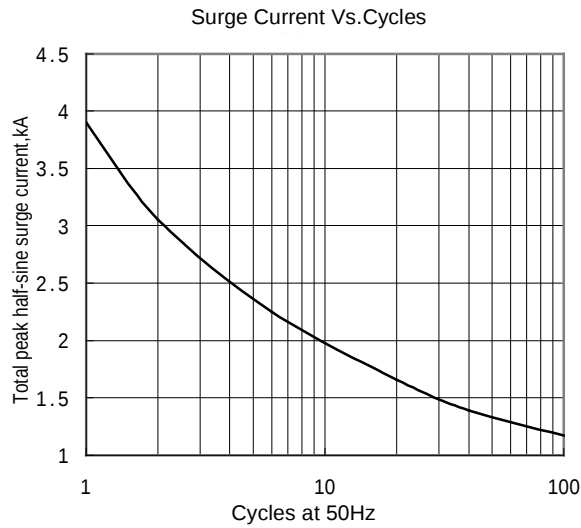


Fig.7

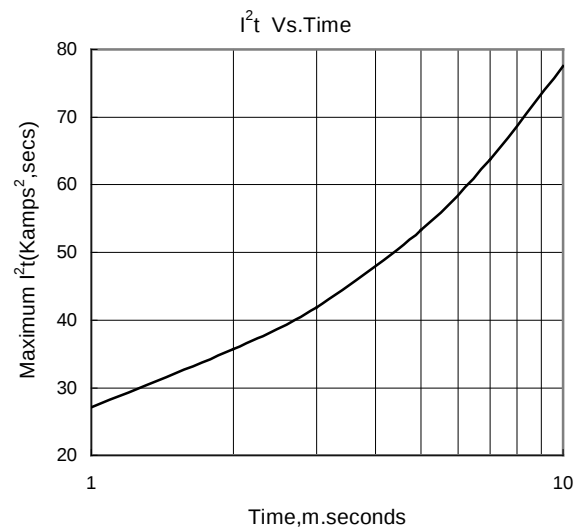


Fig.8

Outline:

