

MDC350 MDA350 MDK350 MD350 Diode Modules

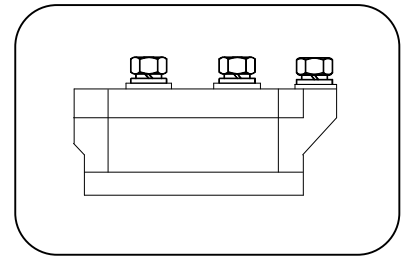
Features:

- n Isolated mounting base 3600V~
- 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

$I_{F(AV)}$	350A
V_{RRM}	1900~3000V
I_{FSM}	15 A × 10³
I^2t	1150A² S × 10³



SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T _j (°C)	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Single side cooled, T _C =100°C	150			350	A
$I_{F(RMS)}$	RMS forward current		150			550	A
V_{RRM}	Repetitive peak reverse voltage	V _{RRM} tp=10ms V _{RSM} = V _{RRM} +200V	150	1900		3000	V
I_{RRM}	Repetitive peak current	at V _{RRM}	150			35	mA
I_{FSM}	Surge forward current	10ms half sine wave	150			15.0	KA
I^2t	I ² T for fusing coordination	V _R =0.6V _{RRM}				1150	A ² S × 10 ³
V_{FO}	Threshold voltage		150			0.80	V
r_F	Forward slop resistance					0.56	mΩ
V_{FM}	Peak forward voltage	I _{FM} =1050A	25			1.60	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine: Single side cooled				0.110	°C /W
$R_{th(c-h)}$	Thermal resistance case to heat sink	At 180° sine: Single side cooled				0.04	°C /W
V_{iso}	Isolation voltage	50Hz, R.M.S, t=1min, I _{iso} :1mA(max)		3600			V
F_m	Terminal connection torque (M10)				12		N·m
	Mounting torque (M6)				6		N·m
T_{stg}	Stored temperature			-40		125	°C
W_t	Weight				1350		g
Outline	415F3						

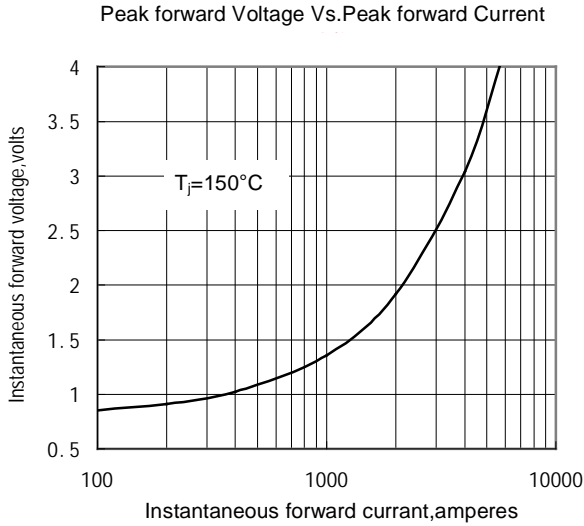


Fig.1

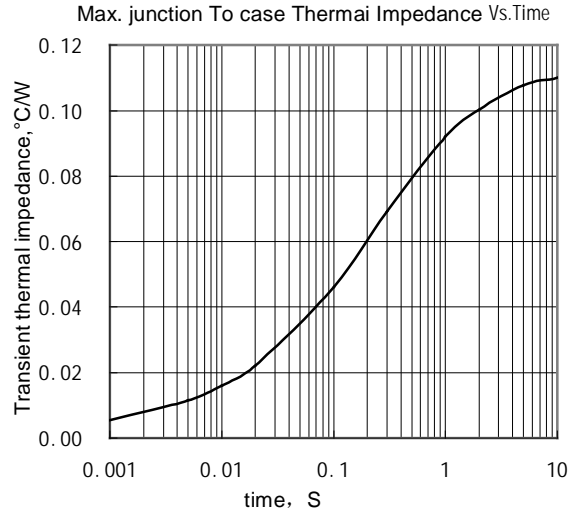


Fig.2

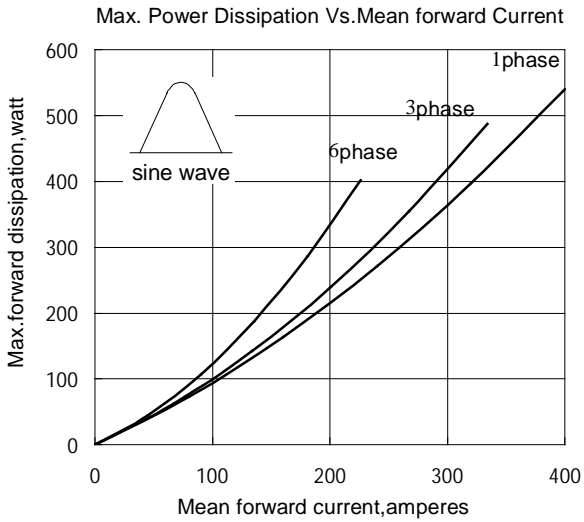


Fig.3

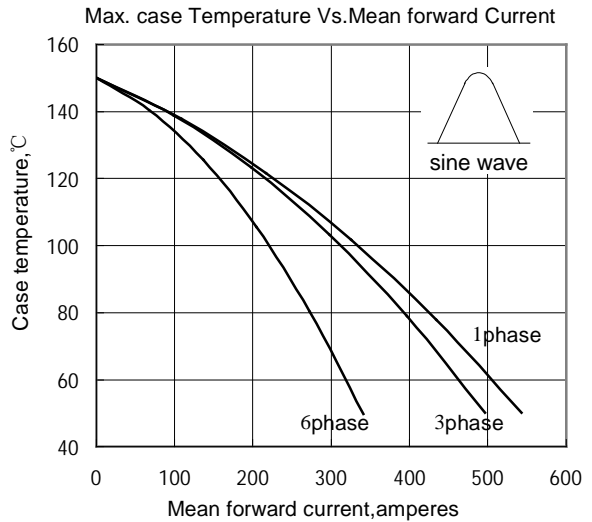


Fig.4

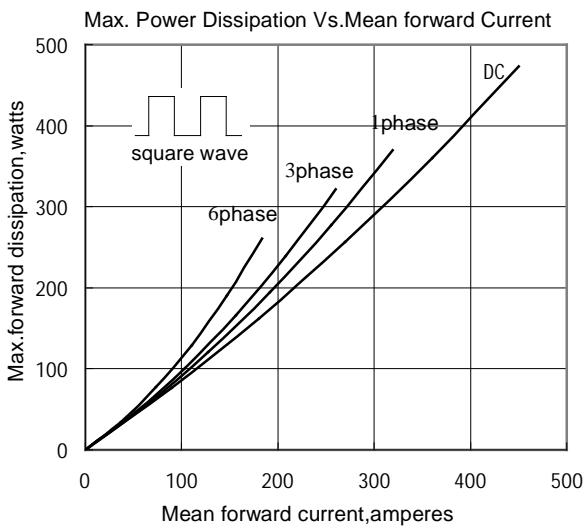


Fig.5

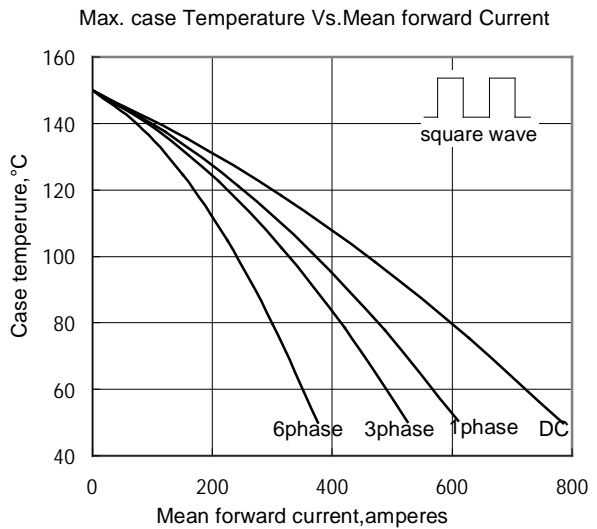


Fig.6

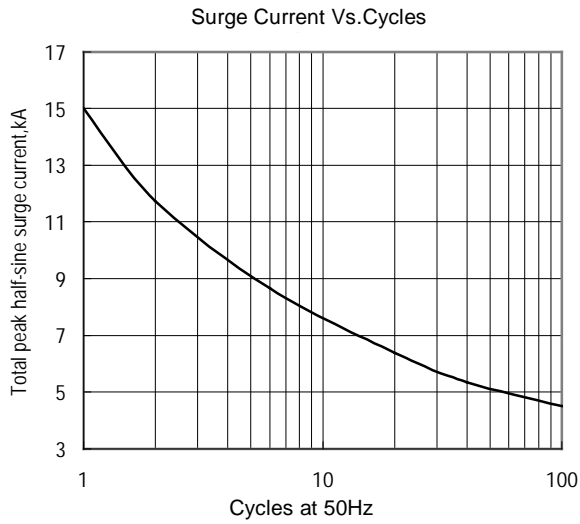


Fig.7

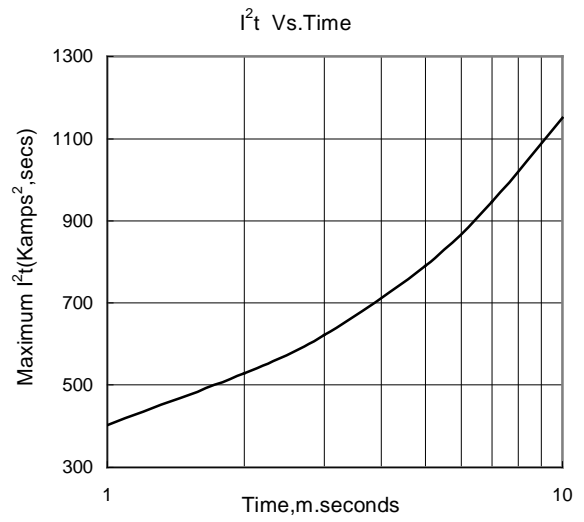


Fig.8

Outline:

