

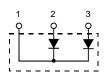
Fast Recovery Epitaxial Diode (FRED) Module

MEK 150-04 DA

 $V_{RRM} = 400 V$ $I_{FAV} = 150 A$ $t_{rr} = 300 ns$

Preliminary data

V _{RSM}	V _{RRM}	Туре
V 400	400	MEK 150-04DA
700	700	MILIT 130 OTDA



TO-240 AA ₁	2 3

Symbol	Conditions	Maximur	Maximum Ratings		
FRMS	T _c = 100°C; rectangular, d = 0.5	200 150	A A		
I _{FSM}	$T_{VJ} = 45^{\circ}C$; t = 10 ms (50 Hz), sine	1200	Α		
T _{VJ} T _{VJM} T _{stg}		-40+150 175 -40+150	°C °C °C		
P _{tot}	T _c = 25°C	360	W		
V _{ISOL}	50/60 Hz, RMS; $I_{ISOL} \le 1 \text{ mA}$	3600	V~		
M _d	Mounting torque with screw M5 Terminal connection torque	2.5-4/22-35 2.5-4/22-35	Nm/lb.in. Nm/lb.in.		
Weight	typical	90	g		

Symbol	Conditions	Characteristic Values		
-		typ.	max.	
I _R	$T_{VJ} = 25^{\circ}C V_R = V_{RRM}$ $T_{VJ} = 150^{\circ}C V_R = V_{RRM}$		2.0 8.5	mA mA
V _F	$I_F = 300 \text{ A}; T_{VJ} = 150^{\circ}\text{C}$ $T_{VJ} = 25^{\circ}\text{C}$		1.4 1.6	V
R _{thJC}		0.08	0.35	K/W K/W
I _{RM}	$V_R = 100 \text{ V}; I_F = 200 \text{ A}; -di_F/dt = 100 \text{ A}/\mu\text{s}$ $T_{VJ} = 100^{\circ}\text{C}$	11	14	А

Features

- International standard package with DCB ceramic base plate
- · Planar passivated chips
- · Short recovery time
- Low switching losses
- Soft recovery behaviour
- Isolation voltage 3600 V~
- UL registered E 72873

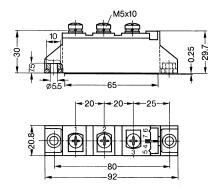
Applications

- Antiparallel diode for high frequency switching devices
- Free wheeling diode in converters and motor control circuits
- · Inductive heating and melting
- Uninterruptible power supplies (UPS)
- · Ultrasonic cleaners and welders

Advantages

- High reliability circuit operation
- Low voltage peaks for reduced protection circuits
- · Low noise switching
- · Low losses

Dimensions in mm (1 mm = 0.0394")



Data according to IEC 60747 IXYS reserves the right to change limits, test conditions and dimensions

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