



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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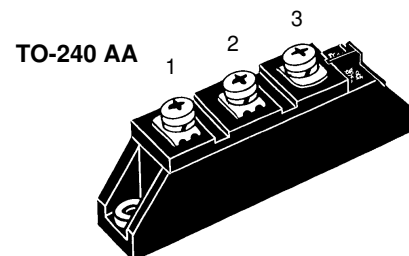
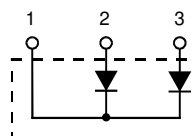
Fast Recovery Epitaxial Diode (FRED) Module

MEK 150-04 DA

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

Preliminary data

V_{RSM} V	V_{RRM} V	Type
400	400	MEK 150-04DA



Symbol	Conditions	Maximum Ratings	
I_{FRMS}	$T_C = 100^\circ\text{C}$; rectangular, $d = 0.5$	200	A
I_{FAVM}		150	A
I_{FSM}	$T_{VJ} = 45^\circ\text{C}$; $t = 10 \text{ ms}$ (50 Hz), sine	1200	A
T_{VJ}	$T_C = 25^\circ\text{C}$	-40...+150	$^\circ\text{C}$
T_{VJM}		175	$^\circ\text{C}$
T_{stg}		-40...+150	$^\circ\text{C}$
P_{tot}	$T_C = 25^\circ\text{C}$	360	W
V_{ISOL}	50/60 Hz, RMS; $I_{ISOL} \leq 1 \text{ mA}$	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	$T_{VJ} = 25^\circ\text{C}$ $V_R = V_{RRM}$ $T_{VJ} = 150^\circ\text{C}$ $V_R = V_{RRM}$		2.0 mA 8.5 mA
V_F	$I_F = 300 \text{ A}$; $T_{VJ} = 150^\circ\text{C}$ $T_{VJ} = 25^\circ\text{C}$		1.4 V 1.6 V
R_{thJC} R_{thCH}		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 A

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")

