

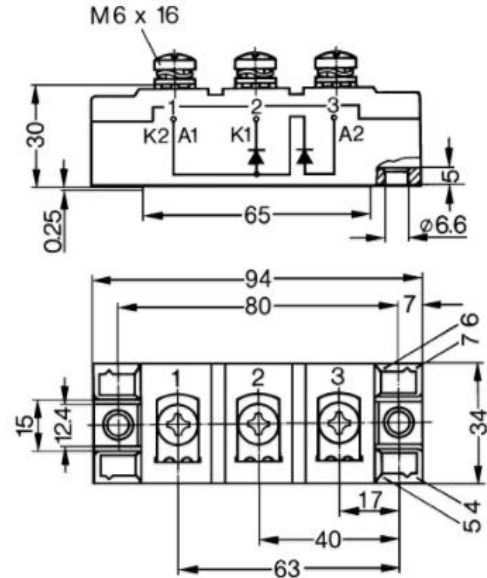
## Dual Diode Isolated Module

### FEATURES

- Electrically Isolated Heatsinking
- Metal Baseplate
- Low Thermal Impedance For Improved Current Capability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

### APPLICATIONS

- Power supplies
- Bridge Circuits
- AC/DC Motor Drives



### ABSOLUTE MAXIMUM RATINGS

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
$V_R$	Repetitive Peak Reverse Voltage		800	V
$I_{F(AV)}$	Average Forward Current	180° conduction, $T_C=100^\circ\text{C}$	160	A
$I_{FSM}$	Non-Repetitive, Peak On Cycle Surge Forward Current	60Hz, 100% $V_{RRM}$ reapplied, $T_J=150^\circ\text{C}$	3500	A
		60Hz, No $V_{RRM}$ reapplied, $T_J=150^\circ\text{C}$	4200	
		50Hz, 100% $V_{RRM}$ reapplied, $T_J=150^\circ\text{C}$	3350	
		50Hz, No $V_{RRM}$ reapplied, $T_J=150^\circ\text{C}$	4000	
Viso	Isolated Voltage	$T_C=25^\circ\text{C}$ , 1sec	2500	V
$T_J$	Junction Temperature		-40~150	$^\circ\text{C}$
$T_{stg}$	Storage Temperature Range		-40~150	$^\circ\text{C}$

**THERMAL CHARACTERISTICS**

SYMBOL	PARAMETER		MAX	UNIT
R <sub>th j-c</sub>	Thermal Resistance, Junction to Case	Per module, both conducting	0.1	°C/W
		Per junction, both conducting	0.2	

**ELECTRICAL CHARACTERISTICS**

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V <sub>F</sub>	Forward Voltage drop	I <sub>F</sub> = 520A, 180° conduction	1.43	V
I <sub>R</sub>	Instantaneous Reverse Current	V <sub>R</sub> =800V, T <sub>J</sub> = 150°C	20	mA

**NOTICE:**

ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications.

ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.