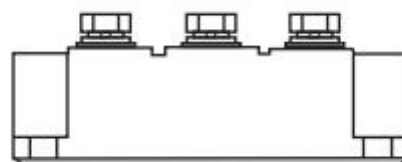
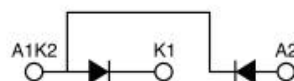


### FEATURES

- High surge current capability
- Isolated mounting base
- High voltage ratings up to 1600V
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

### APPLICATIONS

- Battery charges
- DC motor drives
- Various rectifiers



### ABSOLUTE MAXIMUM RATINGS

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
$V_{RRM}$	Repetitive Peak Reverse Voltage		1600	V
$I_{F(AV)}$	Average Forward Current	$T_c=90^{\circ}\text{C}$ , 180° conduction, half sine wave	160	A
$I_{F(RMS)}$	R.M.S. Forward Current		250	A
$I_{FSM}$	Surge Forward Current	10ms, half sine wave, $V_R=0.6V_{RRM}$	6	KA
$I^2t$	$I^2t$ for fusing		184	KA <sub>2</sub> s
$T_J$	Junction Temperature		-40~150	°C
$T_{stg}$	Storage Temperature Range		-40~125	°C
$V_{iso}$	Isolation Breakdown Voltage (R.M.S.)		2500	V



**THERMAL CHARACTERISTICS**

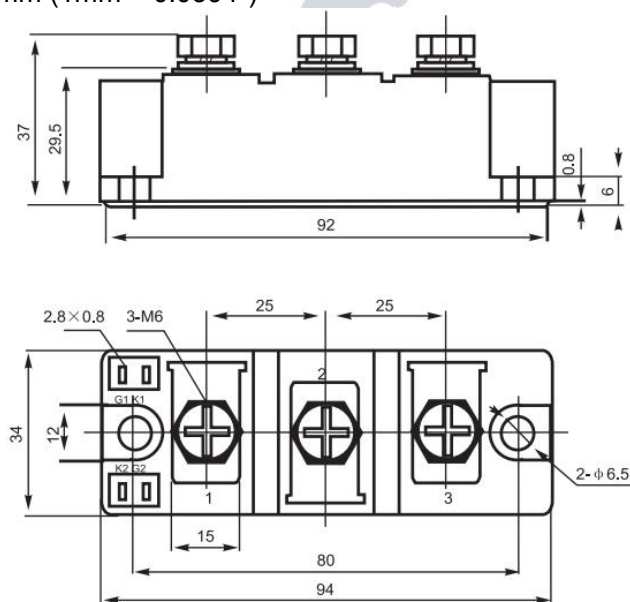
SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	0.23	$^{\circ}\text{C}/\text{W}$

**ELECTRICAL CHARACTERISTICS**

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
$V_{FM}$	Forward Voltage drop	$I_F = 500\text{A}$	1.35	V
$I_{RRM}$	Repetitive Peak Reverse Current	$T_j = 150^{\circ}\text{C}$ , $V_R = V_{RRM}$	12	mA

**PACKAGE OUTLINE**

Dimensions in mm (1mm = 0.0394")


**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.