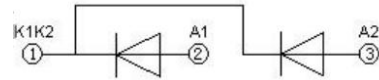


### FEATURES

- Reduced RFI and EMI
- Reduced Snubbing
- Extensive Characterization of Recovery Parameters
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



### APPLICATIONS

- These devices are ideally suited for power converters, motors drives and other applications where switching losses are significant portion of the total losses.



### ABSOLUTE MAXIMUM RATINGS

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
$V_{RRM}$	Repetitive Peak Reverse Voltage	$T_j=25^{\circ}\text{C}$	1600	V
$I_{F(AV)}$	Average Forward Current	$T_j=150^{\circ}\text{C}$	280	A
$I_{FSM}$	Surge Forward Current	$t = 8.3 \text{ ms; (60 Hz), sine}$	11.5	kA
$P_D$	Maximum Power Dissipation	$T_c=25^{\circ}\text{C}$	960	W
$T_j$	Junction Temperature		-40~150	$^{\circ}\text{C}$
$T_{stg}$	Storage Temperature Range		-40~150	$^{\circ}\text{C}$

### THERMAL CHARACTERISTICS

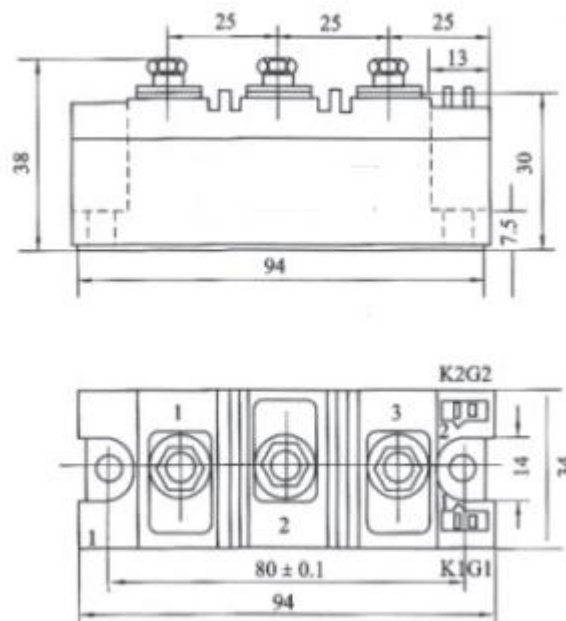
SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	0.13	$^{\circ}\text{C/W}$

### ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
$V_F$	Forward Voltage drop	$I_F = 560A$ , $T_J = 25^\circ C$	1.36	V
$I_R$	Instantaneous Reverse Current	$V_R = 1600V$ , $T_J = 25^\circ C$	1	mA

### PACKAGE OUTLINE

Dimensions in mm (1mm = 0.0394")



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