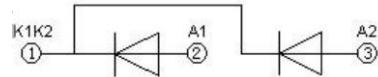


## Standard Rectifier Diode

### FEATURES

- Low leakage current
- Low forward voltage drop
- 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
$V_R$	Repetitive Peak Reverse Voltage		1600	V
$I_{F(AV)}$	Average Forward Current	$T_c=100^\circ\text{C}$	600	A
$I_{FSM}$	Surge Forward Current	$t=10\text{ms}, 50\text{Hz}, \text{sine}$	18000	A
$I^2t$	$I^2t$ for Fusing for One Cycle		1650000	A <sup>2</sup> S
$T_J$	Junction Temperature		-40~125	$^\circ\text{C}$
$T_{stg}$	Storage Temperature Range		-40~125	$^\circ\text{C}$

### THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	0.08	$^\circ\text{C}/\text{W}$

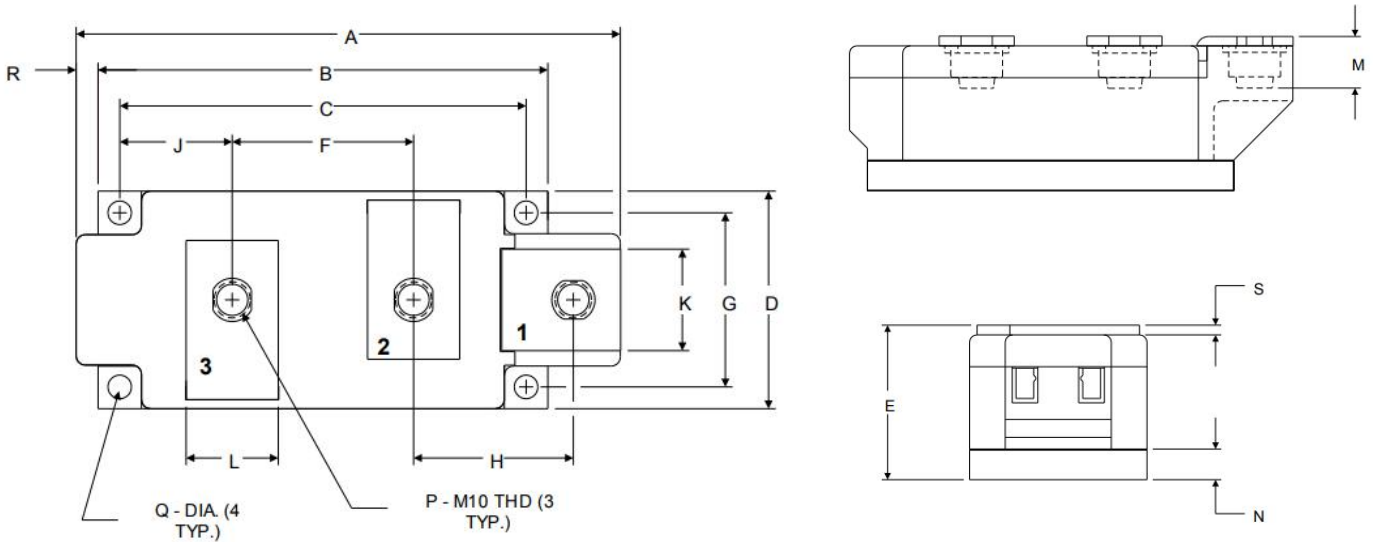
### ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
$V_F$	Forward Voltage drop	$I_F=1500\text{A}, T_J=25^\circ\text{C}$	1.18	V
$I_R$	Instantaneous Reverse Current	$V_R=V_{RRM}, T_J=150^\circ\text{C}$	40	mA

## Standard Rectifier Diode

### PACKAGE OUTLINE

Dimensions in mm (1mm = 0.0394")



Dimension	Inches	Millimeters
A	5.91	150.0
B	4.88	124.0
C	4.41	112.0
D	2.36	60.0
E	2.05	52.0
F	1.97	50.0
G	1.89	48.0
H	1.73	44.0
J	1.22	31.0
K	1.10	28.0
L	1.00	25.4
M	0.69	17.5
N	0.39	10.0
P	M10 Metric	M10
Q	0.26 Dia.	6.5 Dia.
R	0.24	6.0
S	0.12	3.0
T	.110 x .032	2.5 x 0.8