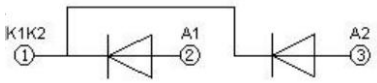
LD411660

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℃	600	A
I_{FSM}	Surge Forward Current	t=10ms,50Hz,sine	18000	A
I^2t	I^2t for Fusing for One Cycle		1650000	A^2S
T_J	Junction Temperature		-40~125	℃
T_{stg}	Storage Temperature Range		-40~125	℃

THERMAL CHARACTERISTICS

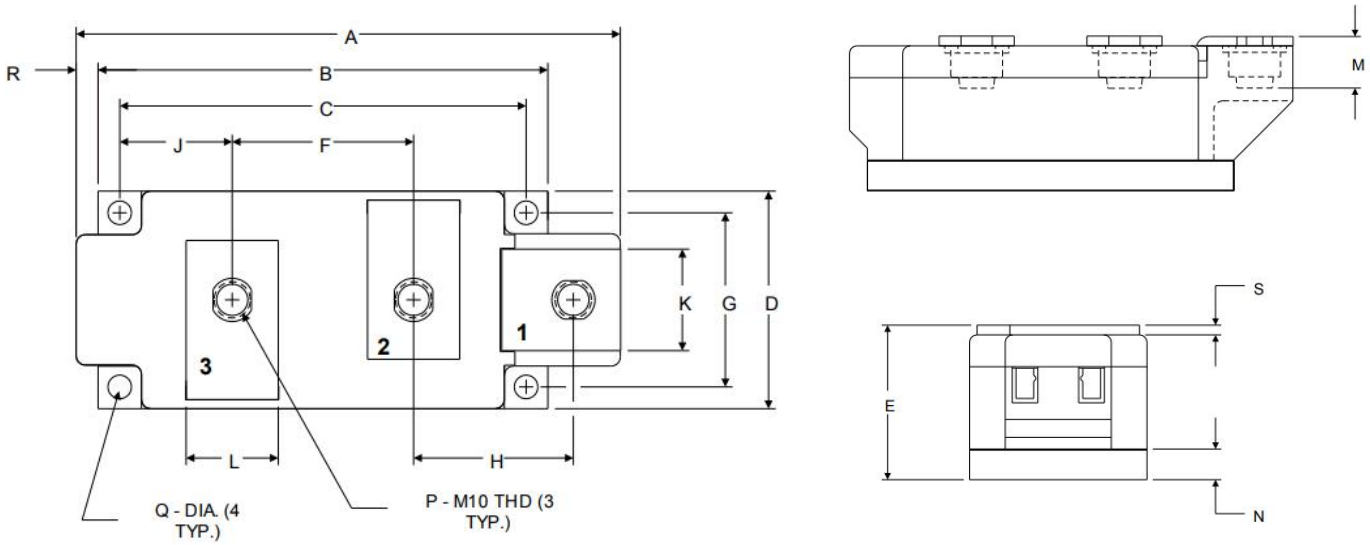
SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j\text{-}c}$	Thermal Resistance, Junction to Case	0.08	℃/W

ELECTRICAL CHARACTERISTICS

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

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