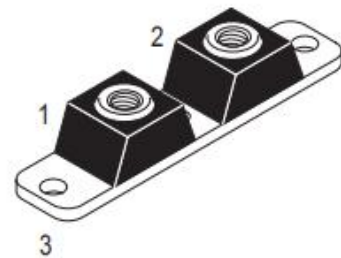
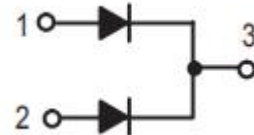


FEATURES

- Low forward voltage drop
- High frequency operation
- 175°C Operating Junction Temperature
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Typical applications are in high current switching power supplies, plating power supplies, UPS systems, converters, free-wheeling diodes, welding, and reverse battery protection.



ABSOLUTE MAXIMUM RATINGS

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_R	Repetitive Peak Reverse Voltage	$I_R=100\mu A$	60	V
$I_{F(AV)}$	Average Forward Current	$T_C=140^\circ C$	200	A
I_{FSM}	Surge Forward Current	Surge applied at rated load conditions halfwave, single phase, 60 Hz	1500	A
dv/dt	Voltage Rate of Change		10000	V/us
T_J	Junction Temperature		-55~175	$^\circ C$
T_{stg}	Storage Temperature Range		-55~150	$^\circ C$

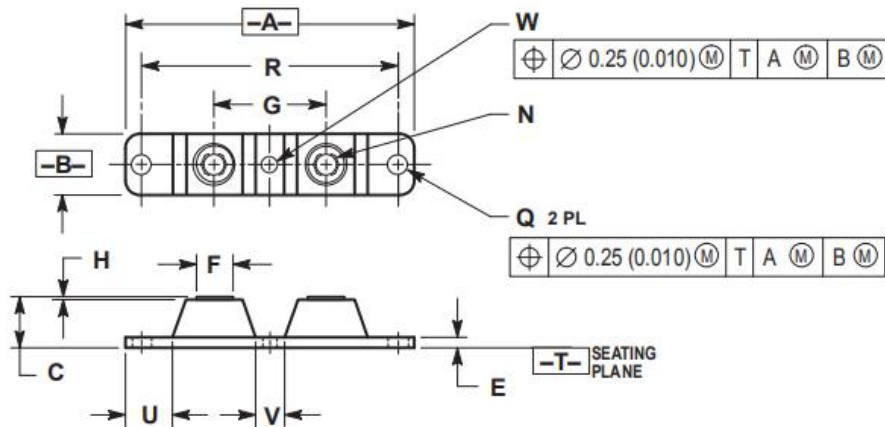
THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th j-c}$	Thermal Resistance, Junction to Case	0.6	$^\circ C/W$

ELECTRICAL CHARACTERISTICS (Pulse Test: Pulse Width = 300 μ s, Duty Cycle 2.0%.)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V_F	Forward Voltage drop	$I_F = 200A, T_J = 25^\circ C$	0.91	V
		$I_F = 200A, T_J = 125^\circ C$	0.8	
I_R	Instantaneous Reverse Current	$V_R = V_{RRM}, T_J = 25^\circ C$	0.5	mA
		$V_R = V_{RRM}, T_J = 125^\circ C$	50	

PACKAGE OUTLINE



DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	3.450	3.635	87.63	92.33
B	0.700	0.810	17.78	20.57
C	0.615	0.640	15.53	16.26
E	0.120	0.130	3.05	3.30
F	0.435	0.445	11.05	11.30
G	1.370	1.380	34.80	35.05
H	0.007	0.030	0.18	0.76
N	1/4-20UNC-2B		1/4-20UNC-2B	
Q	0.270	0.285	6.86	7.32
R	31.50 BSC		80.01 BSC	
U	0.600	0.630	15.24	16.00
V	0.330	0.375	8.39	9.52
W	0.170	0.190	4.32	4.82

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