

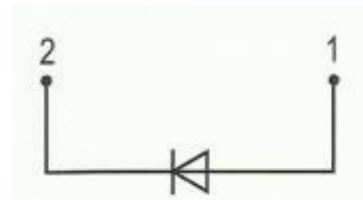
Rectifier Diode Module

FEATURES

- Isolated Base Plate
- Low Forward Voltage
- 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		2200	V
$I_{F(AV)}$	Average Forward Current	$T_c=100^\circ\text{C}$	1280	A
I_{FSM}	Surge Forward Current	$T_p=10\text{ms}, T_J=160^\circ\text{C}$	36	kA
V_{ISO}	Maximum Power Dissipation		3000	V
T_J	Junction Temperature		-40~160	$^\circ\text{C}$
T_{stg}	Storage Temperature Range		-55~160	$^\circ\text{C}$

THERMAL CHARACTERISTICS

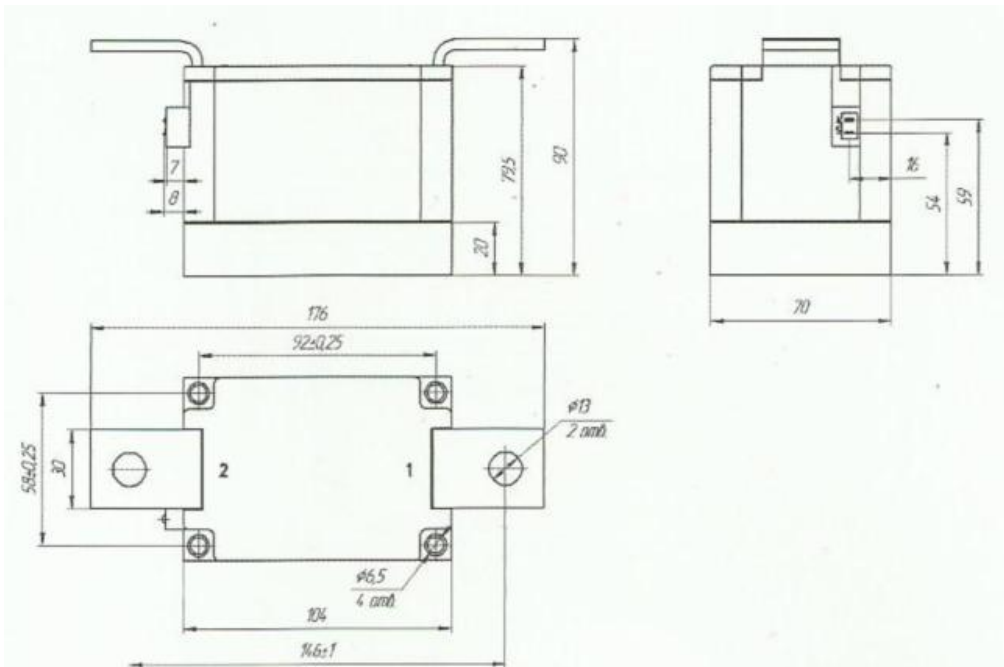
SYMBOL	PARAMETER		MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	Per diode	0.042	$^\circ\text{C}/\text{W}$

ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V_{FM}	Forward Voltage drop	$I_F = 3140A, T_J = 25^\circ C$	1.3	V
I_{RRM}	Instantaneous Reverse Current	$V_R = V_{RRM}, T_J = 25^\circ C$	5	mA
		$V_R = V_{RRM}, T_J = 125^\circ C$	70	mA

PACKAGE OUTLINE

Dimensions in mm (1mm = 0.0394")



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