

FEATURES

- Heat transfer through aluminium nitride ceramic isolated metal baseplate
- Precious metal pressure contacts
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

- Non-controllable rectifiers for AC/DC converters
- Line rectifiers for transistorized AC motor controllers
- Field supply for DC motor



ABSOLUTE MAXIMUM RATINGS

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{RRM}	Repetitive Peak Reverse Voltage	$t_p=10ms$	1800	V
I_{TAV}	Average Forward Current	$T_c = 100^{\circ}C$	1100	A
I_{FSM}	Surge Forward Current	$V_R=0.6V_{RRM}$	40	KA
I^2t	I^2t for fusing		405	KA ² s
V_{iso}	Isolated Voltage	50Hz,R.M.S, $t=1min$, $I_{iso}:1mA(max)$	3000	V
T_J	Junction Temperature		-40~125	$^{\circ}C$
T_{stg}	Storage Temperature Range		-40~125	$^{\circ}C$

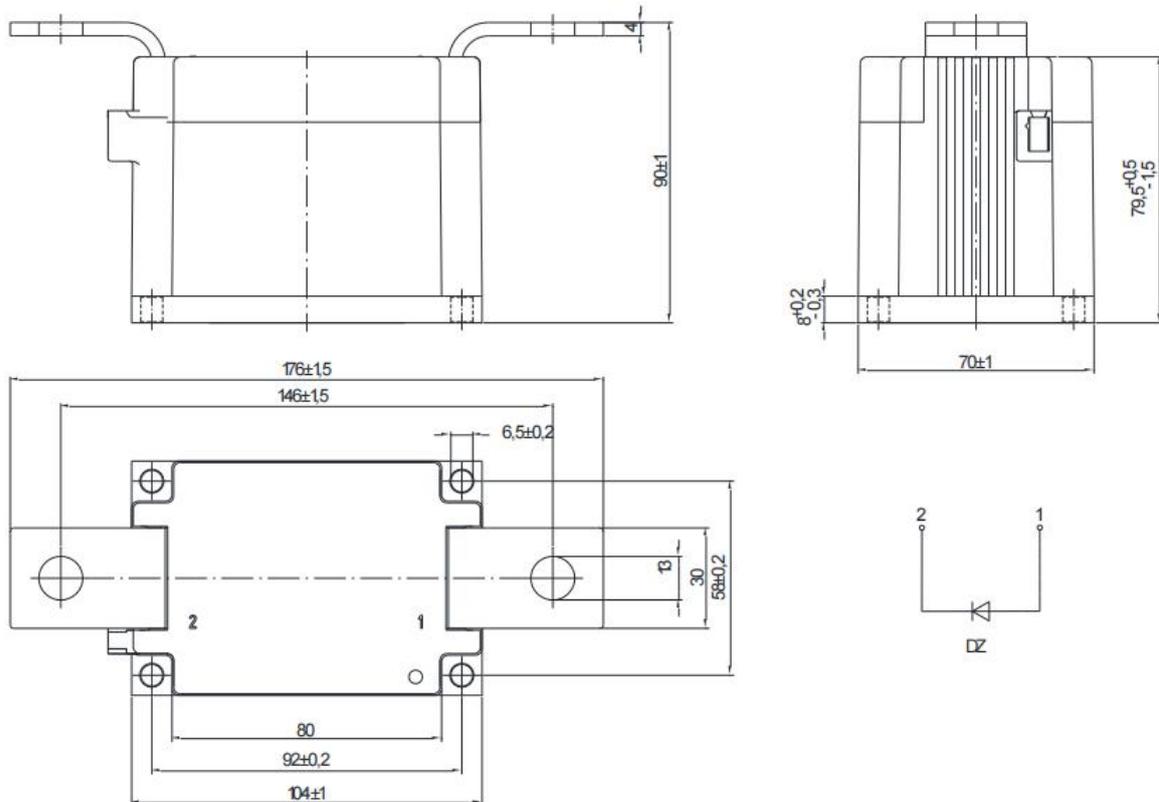
THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	0.048	$^{\circ}C/W$

ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V_{FM}	Forward Voltage drop	$T_{vj} = 25^{\circ}C$; $I_{FM} = 3000A$	1.11	V
I_{RRM}	Instantaneous Reverse Current	$T_{vj} = 125^{\circ}C$; $V_{RD}=V_{RRM}$	120	mA

PACKAGE OUTLINE



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