

FEATURES

- High surge current capability
- Wide current range
- Designed and qualified for industrial and consumer level
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Battery charges
- Converters
- Power supplies
- Machine tool controls

**DO-203AB (DO-5)****ABSOLUTE MAXIMUM RATINGS**

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{RRM}	Repetitive Peak Reverse Voltage		1200	V
$I_{F(AV)}$	Average Forward Current	$T_c=140^{\circ}\text{C}$	70	A
$I_{F(RMS)}$	RMS forward current		110	A
I_{FSM}	Surge Forward Current	50Hz	1200	A
		60Hz	1250	
T_J	Junction Temperature		-40~150	$^{\circ}\text{C}$
T_{stg}	Storage Temperature Range		-40~150	$^{\circ}\text{C}$

THERMAL CHARACTERISTICS

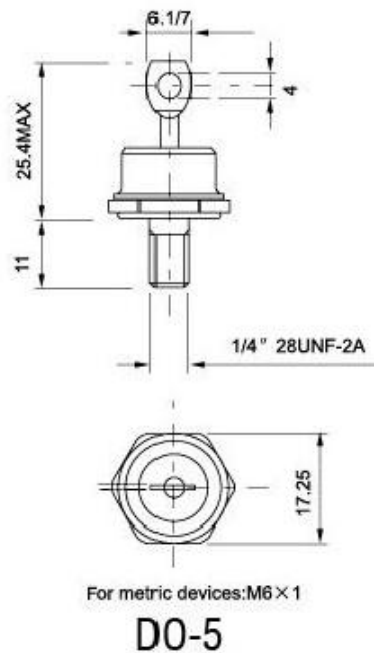
SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case, DC operation	0.45	$^{\circ}\text{C}/\text{W}$

ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V_F	Forward Voltage drop	$I_F = 220A$, $T_J = 25^\circ C$, $t_p = 400\mu s$	1.45	V

PACKAGE OUTLINE

Dimensions in mm (1mm = 0.0394")


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