

# **Standard Recovery Diodes**

## **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			400	V
I <sub>F(AV)</sub>	Average Forward Current	Tc=140℃, 180° conduction, half sine wave		85	А
IFSM	Surge Forward Current	t=10ms	No voltage reapplied	1700	A
		t=8.3ms		1800	
		t=10ms	100%V <sub>RRM</sub> reapplied	1450	
		t=8.3ms		1500	
l²t	I <sup>2</sup> t for fusing	t=10ms	No voltage reapplied	14500	- A <sub>2</sub> s
		t=8.3ms		13500	
		t=10ms	100%V <sub>RRM</sub> reapplied	10500	
		t=8.3ms		9400	
T <sub>J</sub>	Junction Temperature			-65~180	$^{\circ}$
T <sub>stg</sub>	Storage Temperature			-65~180	$^{\circ}$

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### THERMAL CHARACTERISTICS

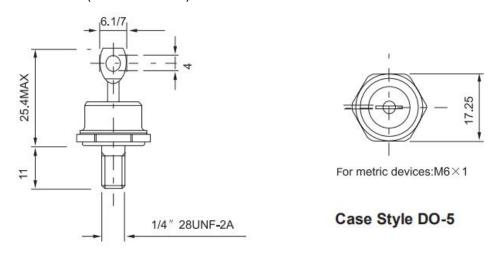
SYMBOL	PARAMETER	MAX	UNIT
R <sub>th j-c</sub>	Thermal Resistance, Junction to Case		°C/W

### **ELECTRICAL CHARACTERISTICS**

SYMBOL	PARAMETER	ETER CONDITIONS		UNIT
V <sub>FM</sub>	Forward Voltage drop	I <sub>F</sub> = 220A, T <sub>J</sub> = 25°C, t <sub>p</sub> =400us	1.2	V

### PACKAGE OUTLINE

Dimensions in mm (1mm = 0.0394")



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