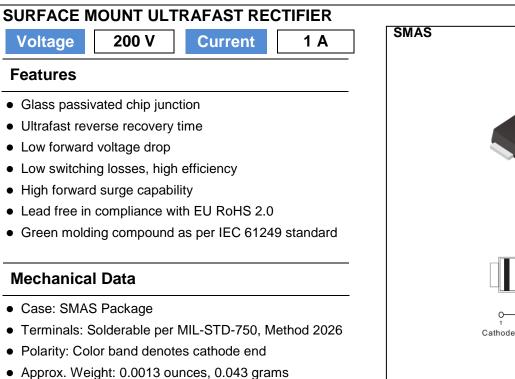
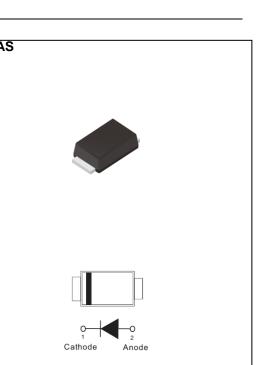
CONDUCTOR

PAN



#### **Maximum Ratings and Thermal Characteristics** ( $T_A = 25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	200	V
Maximum Rms Voltage	V <sub>RMS</sub>	140	V
Maximum Dc Blocking Voltage	V <sub>DC</sub>	200	V
Maximum Average Forward Current	I <sub>F(AV)</sub>	1	А
Peak Forward Surge Current : 8.3 ms Single Half Sine- Wave Superimposed On Rated Load	I <sub>FSM</sub>	30	A
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V$	CJ	18	pF
Typical Thermal Resistance	$R_{\theta JA}^{(1)}$ $R_{\theta JC}^{(2)}$	150 24	°C/W
Operating Junction Temperature Range	TJ	-55~150	°C
Storage Temperature Range	T <sub>STG</sub>	-55~150	°C



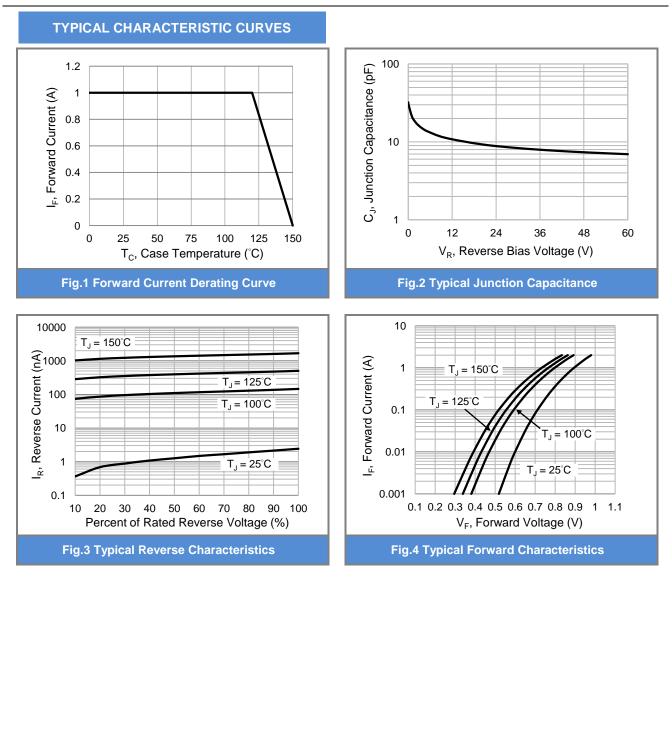


### **Electrical Characteristics** ( $T_A = 25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V <sub>F</sub>	$I_F = 0.5 \text{ A}, T_J = 25 ^{\circ}\text{C}$	-	0.83	-	V
		$I_F = 1 \text{ A},  \text{T}_J = 25 ^{\circ}\text{C}$	-	0.89	1	
		I <sub>F</sub> = 0.5 A, T <sub>J</sub> = 125 °C	-	0.69	-	
		I <sub>F</sub> = 1 A, T <sub>J</sub> = 125 °C	-	0.77	-	
Reverse Current	I <sub>R</sub>	$V_R = V_{RRM}, T_J = 25 \ ^{\circ}C$	-	-	1	uA
		$V_R = V_{RRM}, T_J = 125 \ ^{\circ}C$	-	0.51	-	
Reverse Recovery Time	T <sub>RR</sub>	$I_F = 0.5 \text{ A}, I_R = 1 \text{ A},$	-	-	50	ns
		$I_{RR} = 0.25 \text{ A}, T_{J} = 25 ^{\circ}\text{C}$				

NOTES:

- 1. Mounted on a FR4 PCB, single-sided copper, mini pad.
- 2. Mounted on a FR4 PCB, single-sided copper, with 100cm<sup>2</sup> copper pad area.

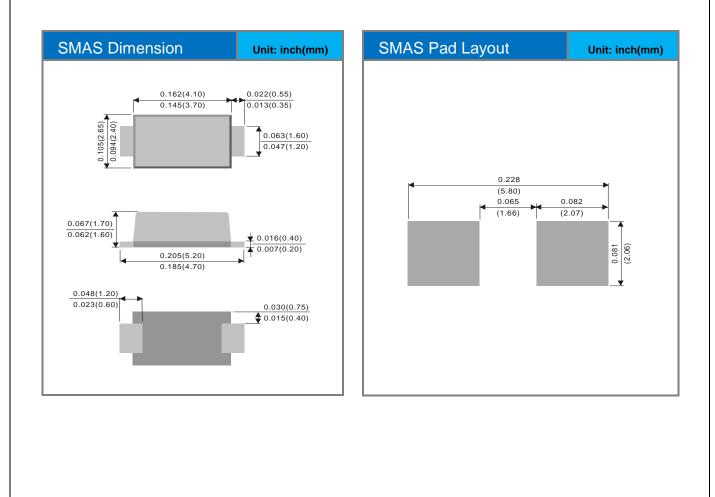




#### Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
U1D_R2_00001	SMAS	9.5K / 13" Reel	U1D	Halogen free

#### Packaging Information & Mounting Pad Layout





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