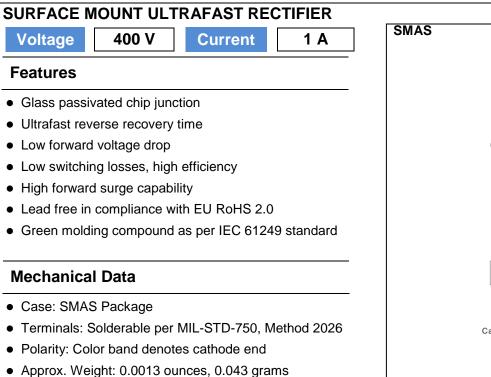
CONDUCTOR

ΡΛΝ



SMAS

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

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	400	V
Maximum Rms Voltage	V _{RMS}	280	V
Maximum Dc Blocking Voltage	V _{DC}	400	V
Maximum Average Forward Current	I _{F(AV)}	1	A
Peak Forward Surge Current : 8.3 ms Single Half Sine- Wave Superimposed On Rated Load	I _{FSM}	30	А
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V$	CJ	10	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 _{STG}	-55~150	°C



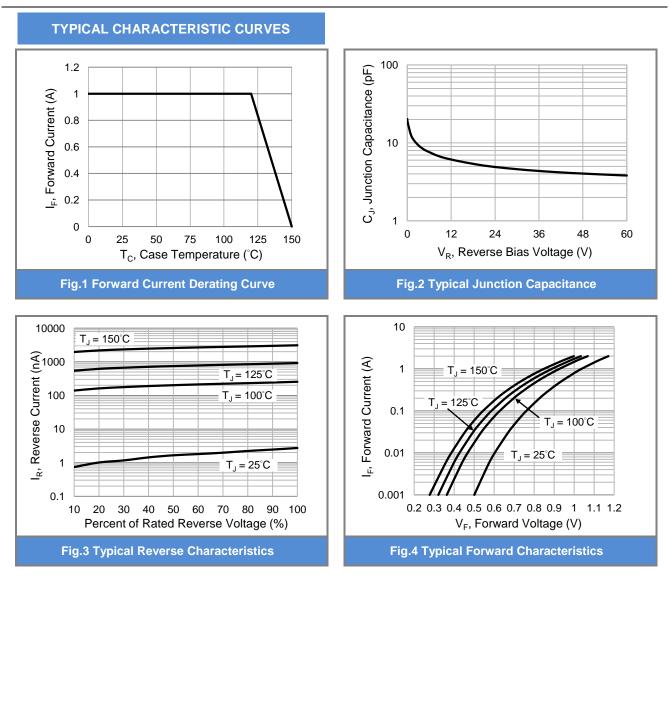
Electrical Characteristics ($T_A = 25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V _F	$I_F = 0.5 \text{ A}, T_J = 25 ^{\circ}\text{C}$	-	0.94	-	V
		$I_F = 1 \text{ A}, \text{ T}_J = 25 \degree \text{C}$	-	1.04	1.3	
		I _F = 0.5 A, T _J = 125 [°] C	-	0.77	-	
		I _F = 1 A, T _J = 125 °C	-	0.89	-	
Reverse Current	I _R	$V_R = V_{RRM}, T_J = 25 \ ^{\circ}C$	-	-	1	uA
		$V_R = V_{RRM}, T_J = 125 \ ^{\circ}C$	-	0.92	-	
Reverse Recovery Time	T _{RR}	I _F = 0.5 A, I _R = 1 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 100cm² copper pad area.



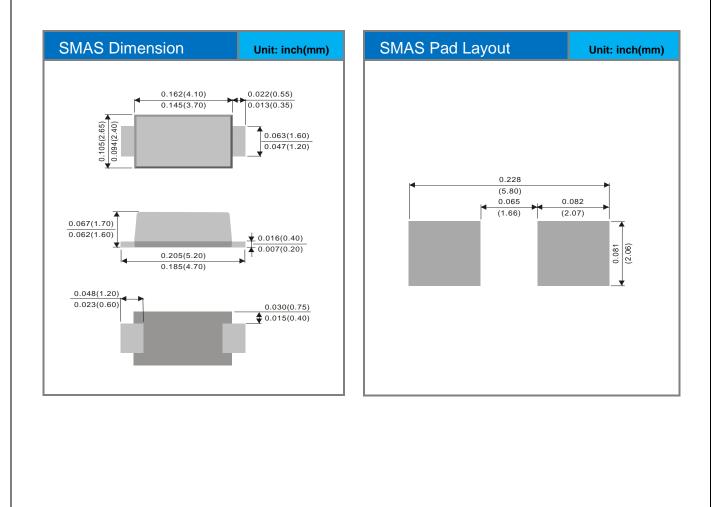




Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
U1G_R2_00001	SMAS	9.5K / 13" Reel	U1G	Halogen free

Packaging Information & Mounting Pad Layout





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