



UFA15M

SURFACE MOUNT ULTRAFAST RECTIFIER

Voltage 1000 V **Current** 1.5 A

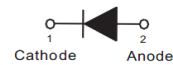
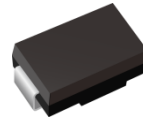
Features

- Glass passivated chip junction
- Ultrafast reverse recovery time
- Low forward voltage drop
- Low switching losses, high efficiency
- High forward surge capability
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case: SMA Package
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0024 ounces, 0.068 grams

SMA



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

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	1000	V
Maximum Rms Voltage	V_{RMS}	700	V
Maximum Dc Blocking Voltage	V_{DC}	1000	V
Maximum Average Forward Current	$I_{F(AV)}$	1.5	A
Peak Forward Surge Current: 8.3ms Single Half Sine-Wave Superimposed On Rated Load	I_{FSM}	50	A
Typical Junction Capacitance Measured at 1 MHz And Applied $V_R = 4\text{ V}$	C_J	10.7	pF
Typical Thermal Resistance	$R_{\theta JA}^{(1)}$	150	$^\circ\text{C/W}$
	$R_{\theta JC}^{(2)}$	24	
Operating Junction Temperature Range	T_J	-55~150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55~150	$^\circ\text{C}$



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

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V_F	$I_F = 0.5\text{ A}, T_J = 25^\circ\text{C}$	-	1.11	-	V
		$I_F = 1.5\text{ A}, T_J = 25^\circ\text{C}$	-	1.31	1.7	
		$I_F = 0.5\text{ A}, T_J = 125^\circ\text{C}$	-	0.85	-	
		$I_F = 1.5\text{ A}, T_J = 125^\circ\text{C}$	-	1.07	-	
Reverse Current	I_R	$V_R = 1000\text{ V}, T_J = 25^\circ\text{C}$	-	-	1	uA
		$V_R = 1000\text{ V}, T_J = 125^\circ\text{C}$	-	13	-	
Reverse Recovery Time	T_{RR}	$I_F = 0.5\text{ A}, I_R = 1\text{ A},$ $I_{RR} = 0.25\text{ A}, T_J = 25^\circ\text{C}$	-	-	100	ns

NOTES:

1. Mounted on a FR4 PCB, single-sided copper, mini pad.
2. Mounted on a FR4 PCB, single-sided copper, with 10cm*10cm copper pad area.



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TYPICAL CHARACTERISTIC CURVES

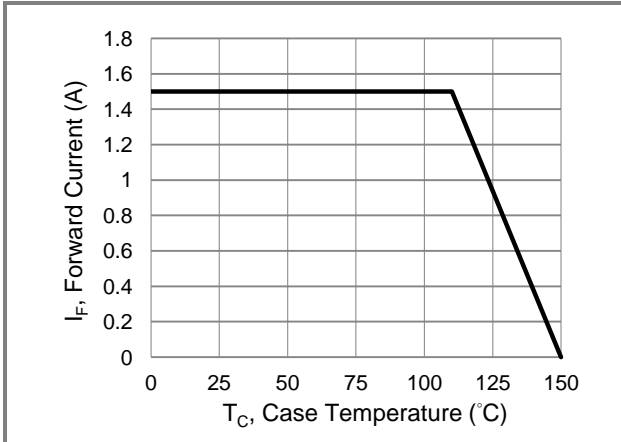


Fig.1 Forward Current Derating Curve

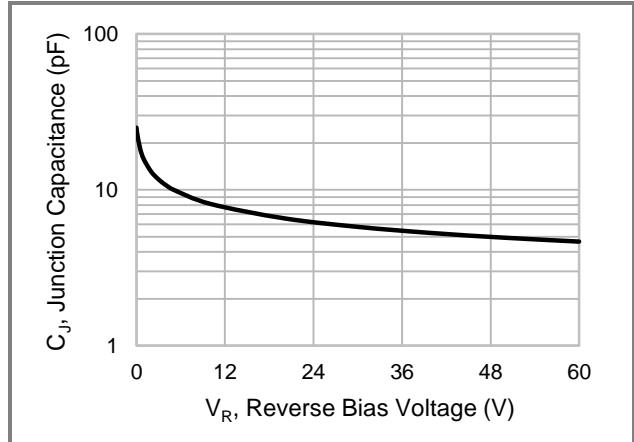


Fig.2 Typical Junction Capacitance

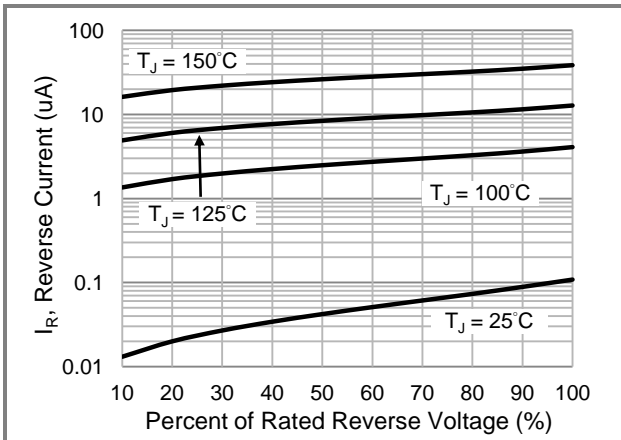


Fig.3 Typical Reverse Characteristics

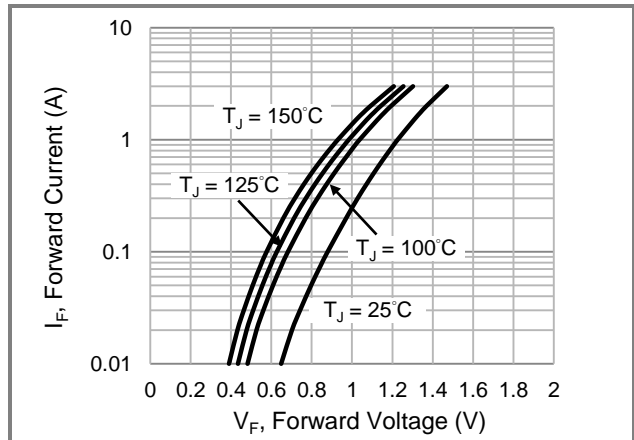


Fig.4 Typical Forward Characteristics

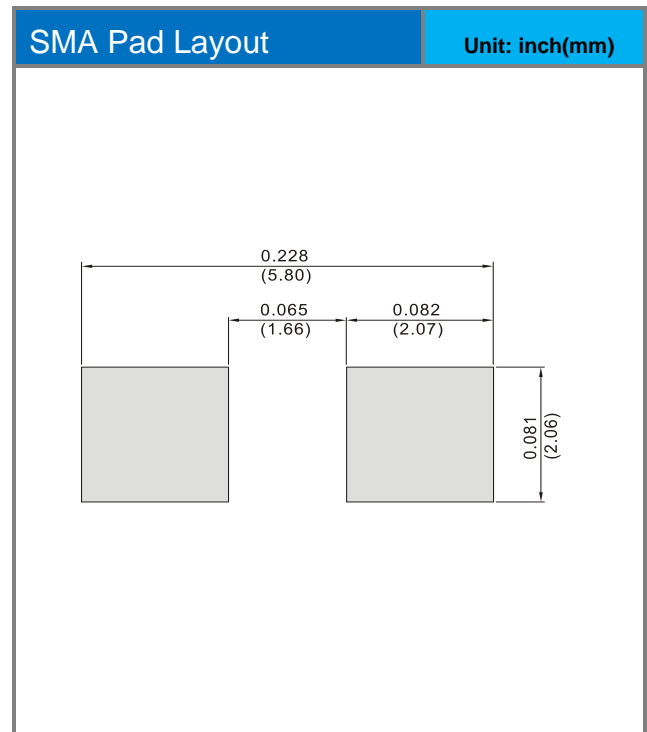
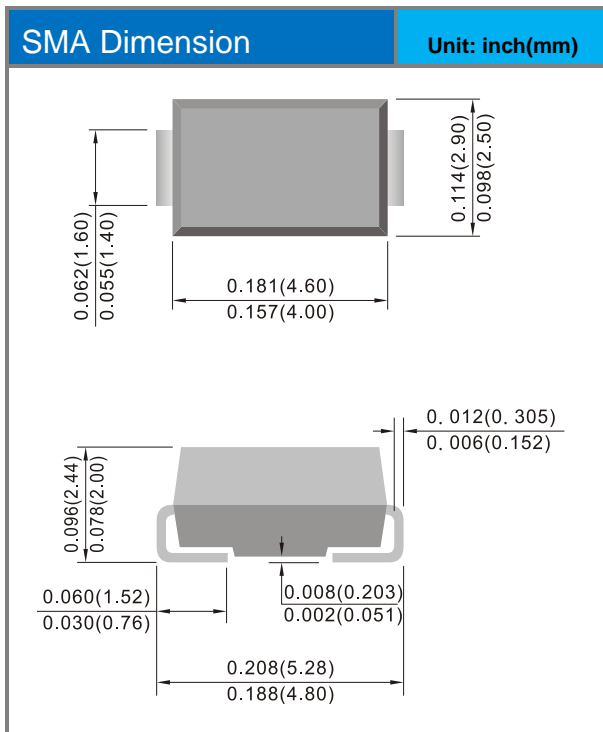


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Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
UFA15M_R2_00001	SMA	7.5K pcs / 13" reel	UFA15M	Halogen free

Packaging Information & Mounting Pad Layout





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