

Maximum Ratings and Thermal Characteristics (T_A = 25°C unless otherwise noted)

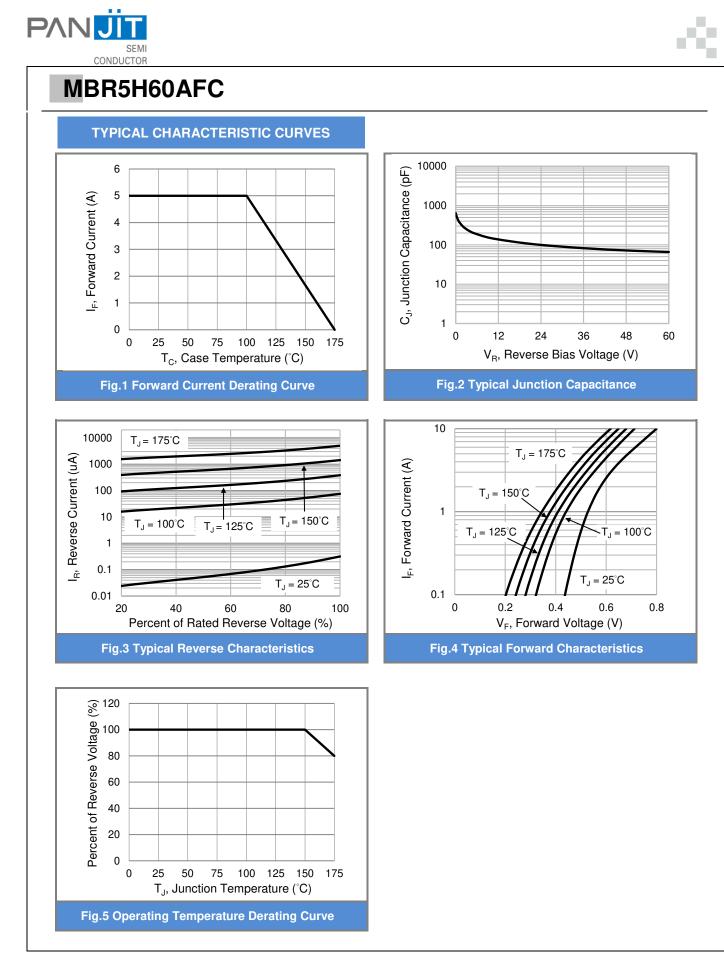
PARAMETER	SYMBOL	LIMIT	UNITS	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	60	V	
Maximum RMS Voltage	VRMS	42	V	
Maximum DC Blocking Voltage	V _R	60	V	
Maximum Average Forward Rectified Current	IF(AV)	5	А	
Peak Forward Surge Current : 8.3 ms Single Half		100	А	
Sine-Wave Superimposed On Rated Load	IFSM	100		
Typical Junction Capacitance		005	- 5	
Measured at 1 MHz And Applied $V_{R} = 4V$	CJ	225	pF	
(Note 1)	R _{0JA}	150		
Typical Thermal Resistance (Note 2)	Rejc	20	°C/W	
Operating Junction Temperature Range	TJ	-55 to +175	٥C	
Storage Temperature Range	Tstg	-55 to +175	٥C	



PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	VF	I _F = 1 A, T _J = 25 °C	-	0.53	-	V
		$I_F = 2 A, T_J = 25 ^{\circ}C$	-	0.58	-	
		I⊧ = 5 A, TJ = 25 °C	-	-	0.75	
		I _F = 1 A, T _J = 125 °C	-	0.41	-	
		I _F = 2 A, T _J = 125 °C	-	0.48	-	
		$I_F = 5 \text{ A}, T_J = 125 ^{\circ}\text{C}$	-	0.59	-	
Reverse Current ^(Note 3)	I _R	$V_{R} = 48 V, T_{J} = 25 ^{\circ}C$	-	140	-	nA
		$V_{R} = 60 V, T_{J} = 25 \circ C$	-	-	5	uA
		$V_{R} = 60 V, T_{J} = 125 \circ C$	-	400	-	

NOTES :

- 1. Mounted on a FR4 PCB, single-sided copper, standard footprint.
- 2. Mounted on a FR4 PCB, single-sided copper, with 100 cm² copper pad area.
- 3. Short duration pulse test used to minimize self-heating effect.

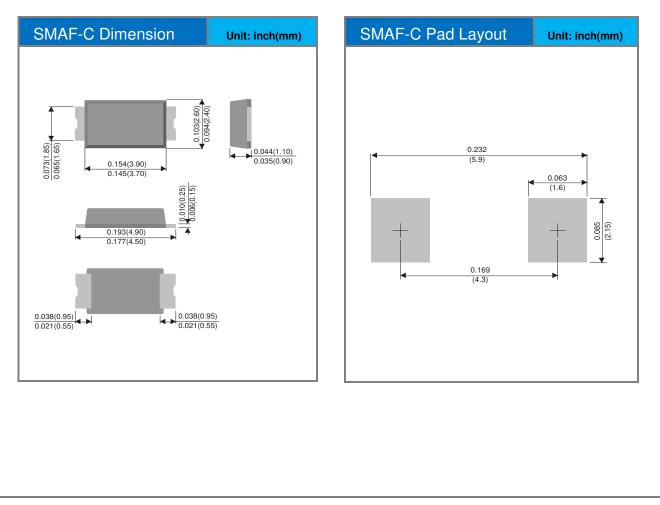




Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
MBR5H60AFC_R1_00001	SMAF-C	3K pcs / 7" reel	MBR5H60	Halogen free RoHS compliant

Packaging Information & Mounting Pad Layout





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