

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

PARAMETER		SYMBOL	LIMIT	UNITS
Maximum Recurrent Peak Reverse Voltage		Vrrm	60	V
Maximum RMS Voltage		V _{RMS}	42	V
Maximum DC Blocking Voltage		Vdc	60	V
Maximum Average Forward Rectified Current		IF(AV)	10	A
Peak Forward Surge Current : 8.3 ms single half sine-wave superimposed on rated load		I _{FSM}	250	A
Typical Junction Capacitance Measured at 1 MHz And Applied $V_R = 4 V$		CJ	550	pF
Typical Thermal Resistance	(Note 1) (Note 2) (Note 2)	Reja Rejc Rejl	65 0.64 12	°C/W
Operating Junction Temperature Range		TJ	-55~150	°C
Storage Temperature Range		Tstg	-55~150	°C



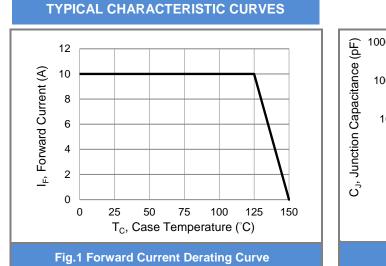
Electrical Characteristics (T_A = 25 °C unless otherwise noted)

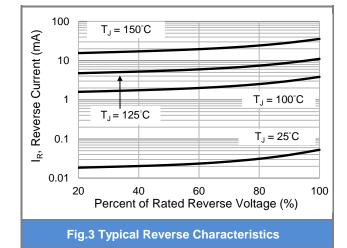
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Forward Voltage	VF	I _F = 3 A, T _J = 25 °C	-	0.36	0.41	V	
		I _F = 5 A, T _J = 25 °C	-	0.4	0.45		
		I _F = 10 A, T _J = 25 °C	-	0.48	0.52		
		$I_F = 3 \text{ A}, T_J = 125 ^{\circ}\text{C}$	-	0.29	0.34		
		I _F = 5 A, T _J = 125 °C	-	0.35	0.4		
		$I_F = 10 \text{ A}, T_J = 125 ^{\circ}\text{C}$	-	0.47	0.52		
Reverse current ^(Note 3)	I _R	V _R = 42 V, T _J = 25 °C	-	30	100		
		V _R = 60 V, T _J = 25 °C	-	53	220	uA	
		V _R = 60 V, T _J = 125 °C	-	15	60	mA	

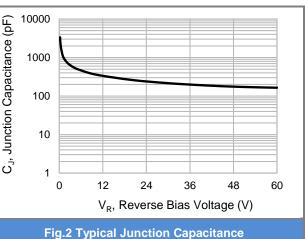
NOTES :

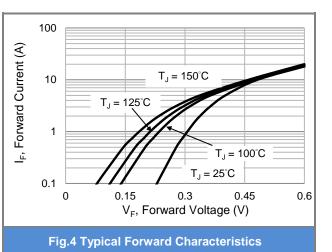
- 1. Mounted on an FR4 PCB, single-sided copper, standard footprint.
- 2. Mounted on a FR4 PCB, single-sided copper, with 100 cm² copper pad area.
- 3. Short duration pulse test used to minimize self-heating effect.









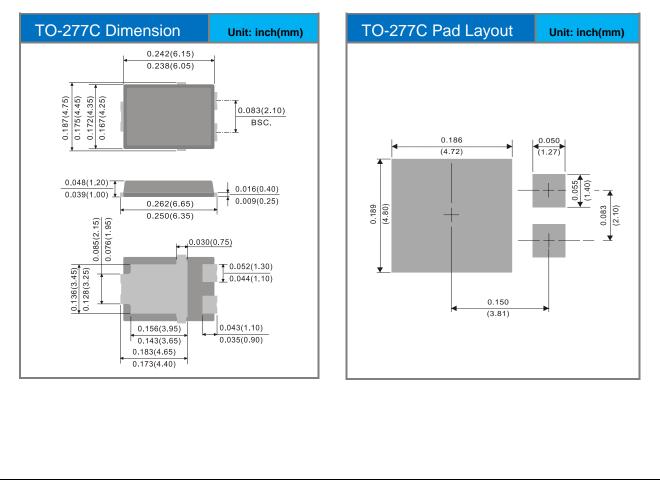




Product and Packing Information

Part No.	Package Type	Packing Type	Marking
SBM1060UPC	TO-277C	5K pcs / 13" reel	SBM1060UPC

Packaging Information & Mounting Pad Layout





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