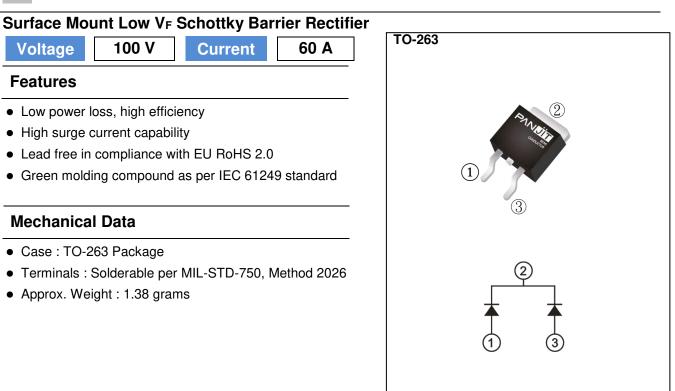
	1 A A A A A A A A A A A A A A A A A A A
ΡΛΝ	JIT
	SEMI
	CONDUCTOR



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

PARAMETER			SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	100	V	
Maximum RMS Voltage		V _{RMS}	70	V	
Maximum DC Blocking Voltage		V _{DC}	100	V	
Maximum Average Forward Current		per device per diode	IF(AV) 60 30		А
Peak Forward Surge Current : 8.3 ms Single Half Sine- Wave Superimposed On Rated Load Per Diode		I _{FSM}	210	A	
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_{B} = 4 V$		CJ	1400	pF	
	(Note 1)		Reja	52	
Typical Thermal Resistance	(Note 2)		Rejc	7.5	°C/W
	(Note 2)		Rejl	5.5	
Operating Junction Temperature Range		TJ	-55~150	٥C	
Storage Temperature Range		T _{STG}	-55~150	°C	



Electrical Characteristics (T _A = 25 °C unless otherwise	se noted)
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PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage Per Diode	VF	I _F = 1 A, T _J = 25 °C	-	0.37	-	V
		I⊧ = 15 A, TJ = 25 °C	-	0.6	-	
		IF = 30 A, TJ = 25 °C	-	-	0.83	
		I _F = 1 A, T _J = 125 °C	-	0.24	-	
		I _F = 15 A, T _J = 125 ℃	-	0.58	-	
		I _F = 30 A, T _J = 125 °C	-	0.73	-	
Reverse Current Per Diode ^(Note 3)	IR	V _R = 80 V, T _J = 25 °C	-	7	-	uA
		$V_{R} = 100 V, T_{J} = 25 \circ C$	-	-	100	
		V _R = 100V,T _J = 125 °C	-	11	-	mA

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.



36 I_F, Forward Current (A) 30 24 18 12 6 per diode 0 0 25 50 75 100 125 150 T_L, Lead Temperature (°C)

TYPICAL CHARACTERISTIC CURVES

Fig.1 Forward Current Derating Curve

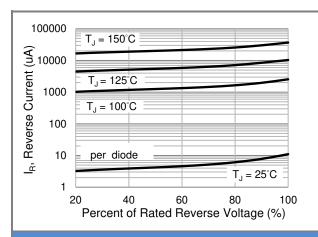
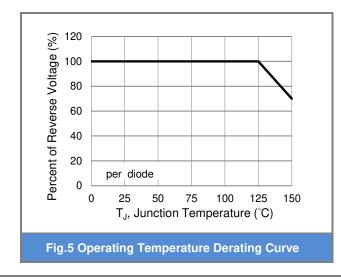


Fig.3 Typical Reverse Characteristics



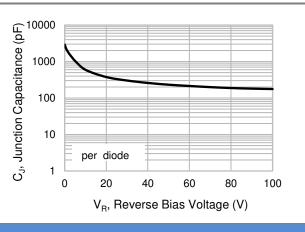


Fig.2 Typical Junction Capacitance

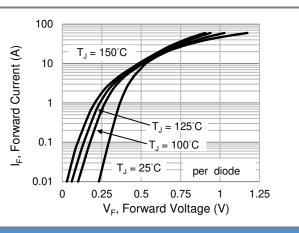


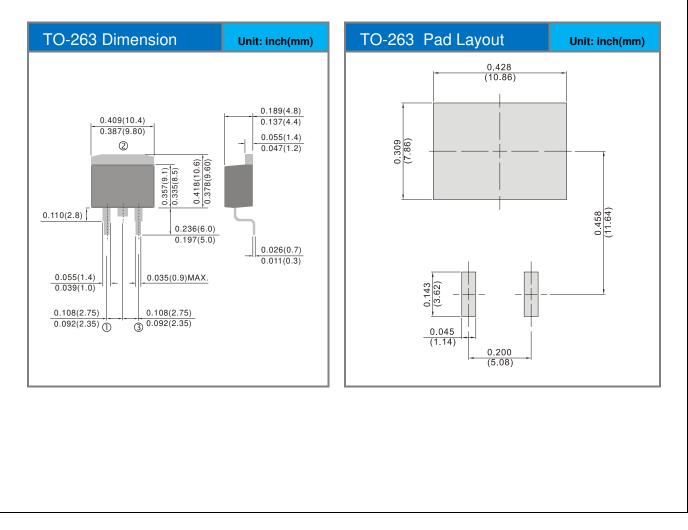
Fig.4 Typical Forward Characteristics



Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
STR60100CB_R2_00001	TO-263	800 pcs / 13" reel	STR60100CB	Halogen free RoHS compliant

Packaging Information & Mounting Pad Layout





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