

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		20		
	per diode	IF(AV)	10	A	
Peak Forward Surge Current : 8.3 ms Single Half Sine-		I _{FSM}	110	А	
Wave Superimposed On Rated Load Per Diode			110		
Typical Junction Capacitance		CJ	500	pF	
Measured at 1 MHZ And Applied $V_{B} = 4 V$			560		
Typical Thermal Resistance	(Note 1)	Reja	52		
	(Note 2)	Rejc	9	°C/W	
	(Note 2)	R _{θJL}	6.5		
Operating Junction Temperature Range		TJ	-55~150	٥C	
Storage Temperature Range		Tstg	-55~150	٥C	

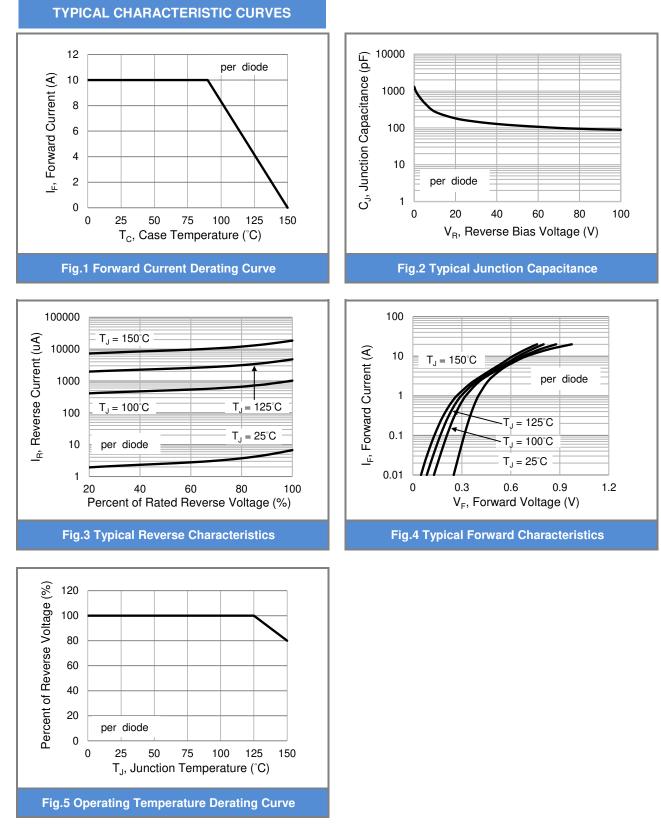


PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage Per Diode	VF	I⊧ = 3 A, TJ = 25 °C	-	0.48	-	V
		IF = 5 A, TJ = 25 °C	-	0.55	-	
		I _F = 10 A, T _J = 25 °C	-	-	0.75	
		I _F = 3 A, T _J = 125 °C	-	0.43	-	
		I _F = 5 A, T _J = 125 °C	-	0.52	-	
		I _F = 10 A, T _J = 125 °C	-	0.64	-	
Reverse Current Per Diode ^(Note 3)	IR	V _R = 80 V, T _J = 25 °C	-	4	-	uA
		V _R = 100 V, T _J = 25 °C	-	-	50	
		V _R = 100V,T _J = 125 °C	-	4.8	-	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.

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ΡΛΝ SEM CONDUCTOR

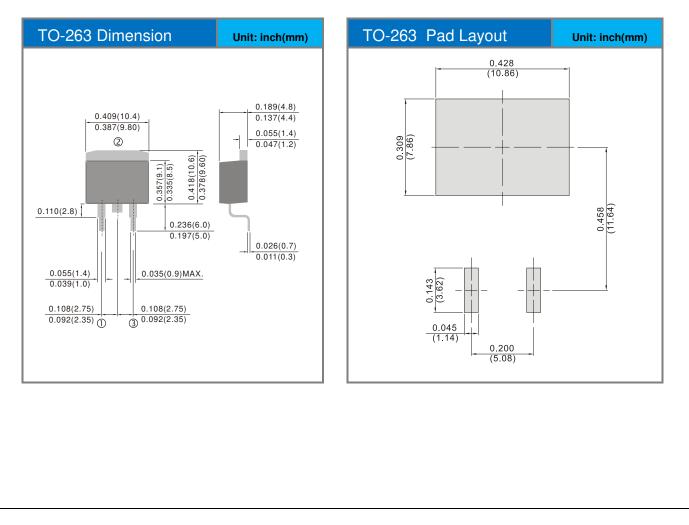




Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
STR20100LCB_R2_00001	TO-263	800 pcs / 13" reel	STR20100LCB	Halogen free RoHS compliant

Packaging Information & Mounting Pad Layout





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