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

8

STR40100LCB



Current

40 A

Features

Voltage

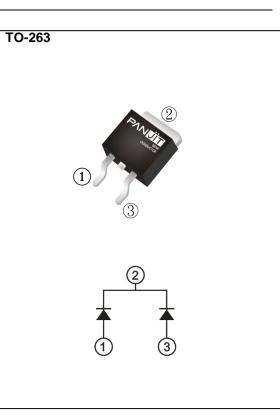
- Low forward voltage drop
- Low power loss, high efficiency
- High surge current capability
- Lead free in compliance with EU RoHS 2.0

100 V

• Green molding compound as per IEC 61249 standard

Mechanical Data

- Case : TO-263 Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 1.38 grams



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

PARAMETER		SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage		Vrrm	100	V
Maximum RMS Voltage		V _{RMS}	70	V
Maximum DC Blocking Voltage		V _{DC}	100	V
Maximum Average Forward Current	per device		40	A
	per diode	IF(AV)	20	
Peak Forward Surge Current : 8.3 ms Single Half Sine-			210	А
Wave Superimposed On Rated Load Per Diode		I _{FSM}		
Typical Junction Capacitance		CJ	1400	pF
Measured at 1 MHZ And Applied $V_R = 4 V$				
	(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	°C
Storage Temperature Range		Tstg	-55~150	°C

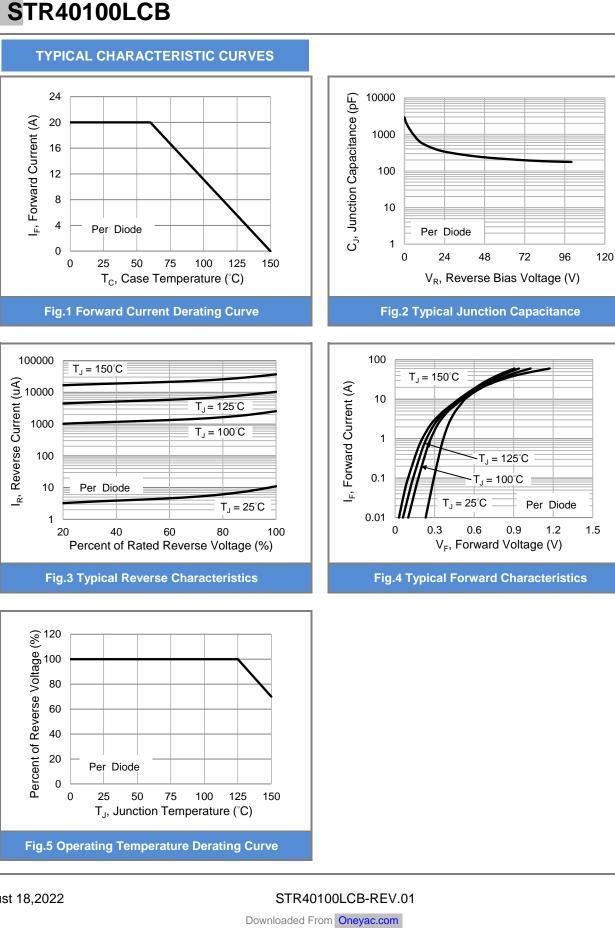


STR40100LCB

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 _F = 10 A, T _J = 25 °C	-	0.53	-	
		IF = 20 A, TJ = 25 °C	-	-	0.72	
		I _F = 1 A, T _J = 125 °C	-	0.24	-	
		I _F = 10 A, T _J = 125 °C	-	0.5	-	
		I _F = 20 A, T _J = 125 °C	-	0.64	-	
Reverse Current Per Diode ^(Note 3)	I _R	V _R = 80 V, T _J = 25 °C	-	7	-	
		V _R = 100 V, T _J = 25 °C	-	-	100	uA
		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.







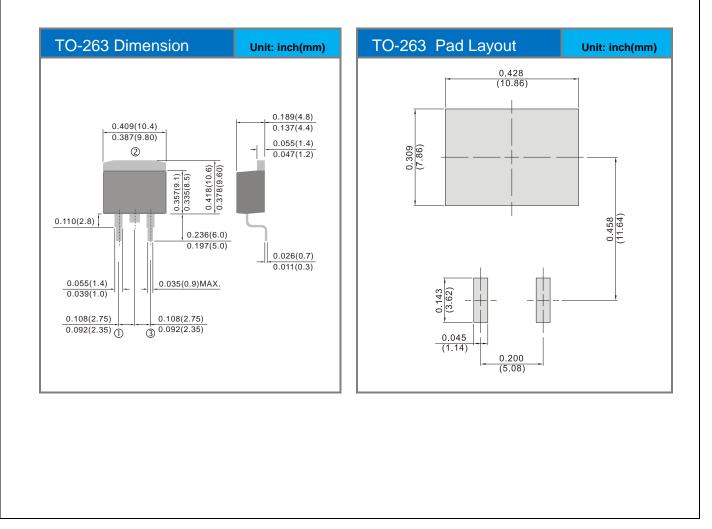


STR40100LCB

Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
STR40100LCB_R2_00001	TO-263	800 pcs / 13" reel	STR40100LCB	Halogen free RoHS compliant

Packaging Information & Mounting Pad Layout





STR40100LCB

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