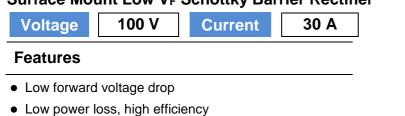


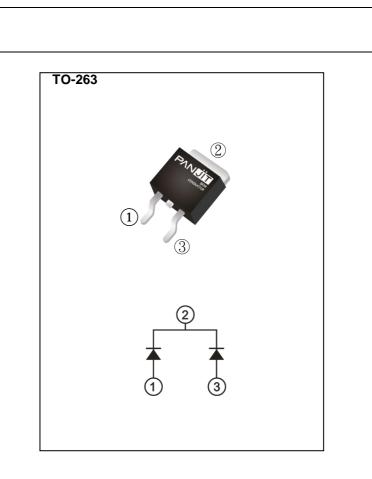
Surface Mount Low V_F Schottky Barrier Rectifier



- High surge current capability
- Lead free in compliance with EU RoHS 2.0
- 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		V _{RRM}	100	V	
Maximum RMS Voltage		VRMS	70	V	
Maximum DC Blocking Voltage		V _{DC}	100	V	
Maximum Average Forward Current	per device		30	A	
	per diode	lf(AV)	15		
Peak Forward Surge Current : 8.3 ms Single Half Sine-V	I _{FSM}	050	А		
Superimposed On Rated Load		250			
Typical Junction Capacitance		CJ	1100	pF	
Measured at 1 MHZ And Applied $V_R = 4 V$			1180		
	(Note 1)	R _{0JA}	40	°C/W	
Typical Thermal Resistance	(Note 2)	R _{θJC}	4.4		
	(Note 2)	Rejl	4.2		
Operating Junction Temperature Range		TJ	-55~150	٥C	
Storage Temperature Range		Tstg	-55~150	°C	

NOTES : 1. Mounted on a FR4 PCB, single-sided copper, standard footprint.

2. Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area.

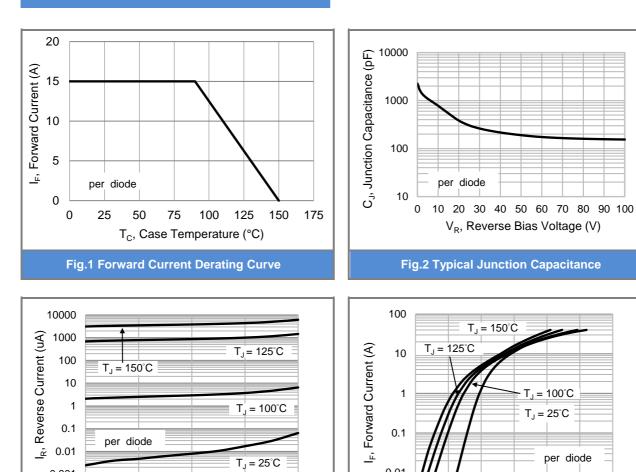


Electrical Characteristics ($T_A = 25$ °C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Forward Voltage	VF	I _F = 1 A, T _J = 25 °C	-	0.39	0.44		
		I _F = 5 A, T _J = 25 °C	-	0.49	0.54	V	
		I _F = 15 A, T _J = 25 ℃	-	0.65	0.7		
		I _F = 1 A, T _J = 125 °C	-	0.26	0.31		
		I _F = 5 A, T _J = 125 °C	-	0.42	0.47		
		I _F = 15 A, T _J = 125 ℃	-	0.62	0.67		
Reverse Current ^(Note 3)	IR	V _R = 80 V, T _J = 25 °C	-	4	24		
		V _R = 100 V, T _J = 25 °C	-	6.5	90	uA	
		V _R = 100V,T _J = 125 °C	-	6	36	mA	

NOTES : 3. Short duration pulse test used to minimize self-heating effect.





T_J = 100°C

T_J = 25°C

100

80

TYPICAL CHARACTERISTIC CURVES

per diode

40

60

Percent of Rated Reverse Voltage (%)

Fig.3 Typical Reverse Characteristics

0.001

20

T_J = 100°C

 $T_J = 25^{\circ}C$

0.8

per diode

1

1.2

1

0.1

0.01 0

0.2

0.4

0.6

Fig.4 Typical Forward Characteristics

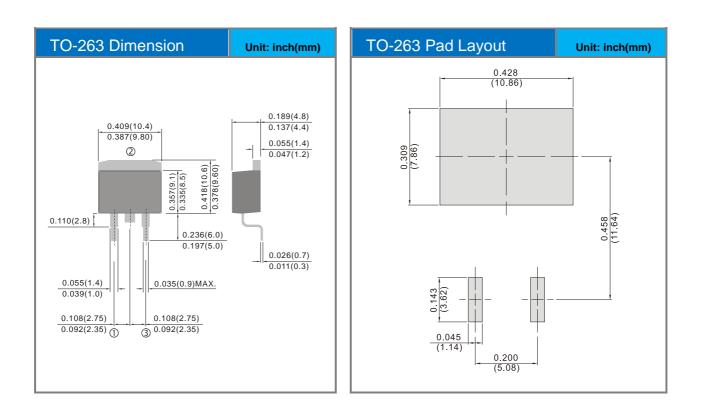
V_F, Forward Voltage (V)



Product and Packing Information

Part No.	Package Type	Packing Type	Marking
STRN30100VCB	TO-263	800 pcs / 13" reel	TN30100VCB

Packaging Information & Mounting Pad Layout





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