



Low V_F Schottky Barrier Rectifier

Voltage 100 V Current

30 A

Features

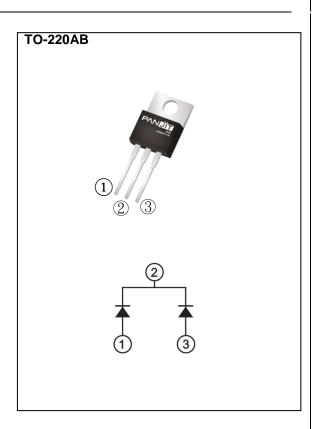
- Low power loss, high efficiency
- High surge current capability
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

• Case: TO-220AB Package

• Terminals : Solderable per MIL-STD-750, Method 2026

• Approx. Weight: 0.0667 ounces, 1.8904 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		V _{RMS}	70	V	
Maximum DC Blocking Voltage		V _{DC}	100	V	
Maximum Average Forward Current	per device		30	А	
	per diode	I _{F(AV)}	15		
Peak Forward Surge Current : 8.3 ms Single Half Sine-			000	А	
Wave Superimposed On Rated Load Per Diode		I _{FSM}	200		
Typical Junction Capacitance		CJ	000	pF	
Measured at 1 MHZ And Applied $V_R = 4 \text{ V}$			800		
Typical Thermal Resistance	(Note 1)	Rejc	2	°C/W	
	(Note 1)	R ₀ JL	2		
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 Per Diode	VF	I _F = 1 A, T _J = 25 °C	-	0.39	ı	V
		I _F = 5 A, T _J = 25 °C	-	0.51	-	
		I _F = 15 A, T _J = 25 °C	-	-	0.78	
		I _F = 1 A, T _J = 125 °C	-	0.27	-	
		I _F = 5 A, T _J = 125 °C	-	0.47	-	
		I _F = 15 A, T _J = 125 °C	-	0.67	-	
Reverse Current Per Diode(Note 2)	I _R	V _R = 80 V, T _J = 25 °C	-	5	-	uA
		V _R = 100 V, T _J = 25 °C	-	-	50	
		V _R = 100V,T _J = 125 °C	-	6.5	-	mA

NOTES:

- 1. Device mounted on a infinite heatsink.
- 2. Short duration pulse test used to minimize self-heating effect.





TYPICAL CHARACTERISTIC CURVES

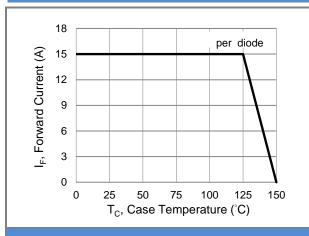


Fig.1 Forward Current Derating Curve

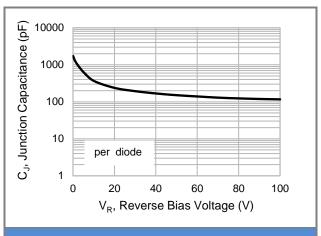


Fig.2 Typical Junction Capacitance

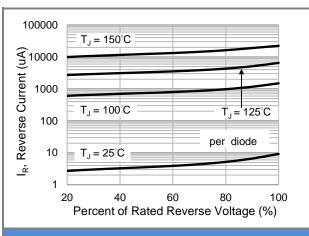


Fig.3 Typical Reverse Characteristics

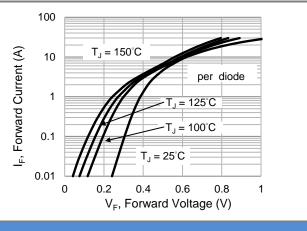


Fig.4 Typical Forward Characteristics

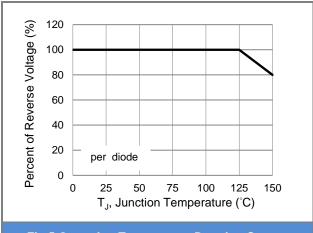


Fig.5 Operating Temperature Derating Curve

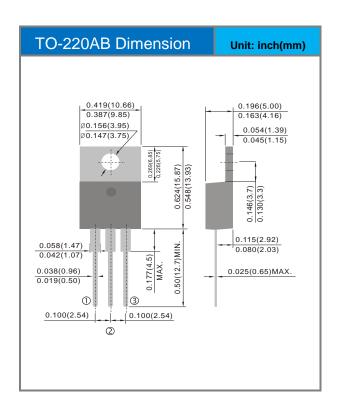




Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
STR30100CT_T0_00001	TO-220AB	50pcs / Tube	STR30100CT	Halogen free RoHS compliant

Packaging Information







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