

Voltage Range - 20 to 200 V Forward Current - 50 Ampere

SCHOTTKY BARRIER RECTIFIER

FEATURES

- Plastic package has Underwriters Laboratory
- Flammability classification 94V-O utilizing
- Flame Retardant Epoxy Molding Compound
- Exceeds environmental standards of MIL-S-19500/228
- Low power loss, high efficiency
- Low forward voltage, high current capability
- · High surge capacity
- For use in low voltage, high frequency inverters.
- Free wheeling, and polarity protection applications

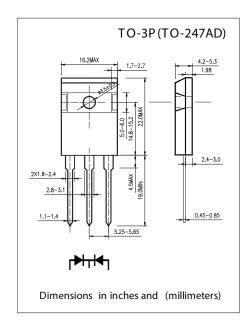
MECHANICAL DATA

- Case: TO-3P molded Plastic
- Terminals: Lead solderable per MIL-STD-202,

Method 208

Polarity: as markedMounting position: Any

• Weight: 0.2ounce, 5.6 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

■ Ratings at 25 °C ambient temperature unless otherwise specified Single Phase, half wave, 60Hz, resistive or inductive load For capacitive load derate current by 20%.

PARAMETER		SYMBOLS	SR 5020CT	SR 5030CT	SR 5035CT	SR 5040CT	SR 5045CT	SR 5050CT	SR 5060CT	SR 5080CT	SR 50100CT	SR 50150CT	SR 50200CT	UNIT
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	20	30	35	40	45	50	60	80	100	150	200	Volts
Maximum RMS Voltage		V_{RMS}	14	21	25	28	32	35	42	56	70	105	140	Volts
Maximum DC Blocking Voltage		V_{DC}	20	30	35	40	45	50	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current At Tc=90 °C		I _(AV)	50.0										Amps	
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC method)		I_{FSM}	400											Amps
Maximum Forward Voltage at 25.0A per element		V_F	0.65			0.72		0.75			0.85		Volts	
Maximum DC Reverse Current at rated DC Blocking Voltage per element	$T_C = 50$ °C	Ţ	2.0											mA
	T _C = 100°C	I_R	100											
Typical Junction Capacitance(Note2)		C_j	700											pF
Typical Thermal Resistance (Note 1)		$R_{\theta JC}$	0.8											$^{\circ}\! \mathbb{C}/\mathbb{W}$
Operating Storage Temperature Range		$T_J T_{STG}$	(-55 to +150)											$^{\circ}\!\mathbb{C}$

Notes:

- 1. Thermal Resistance Junction to Ambient
- 2. Measured at V_R=4v and f=1MHz

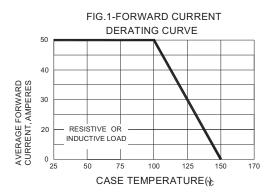
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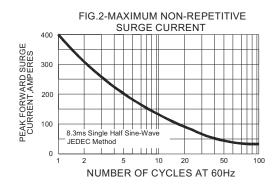


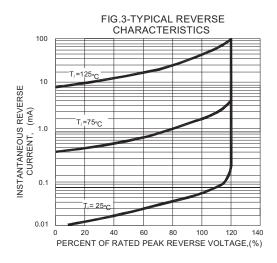
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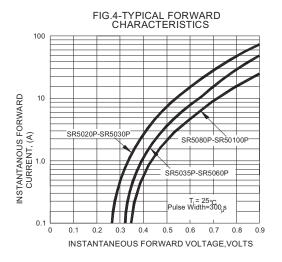
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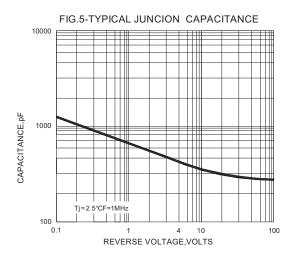
RATINGS AND CHARACTERISTIC CURVES SR5020CT - SR50200CT











Disclaimer

All product, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise.

Email: sales@micindia.com Website: www.micindia.com