(SINGLE CHIP) SR1620 --- SR16200

SAM YANG

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE: 20 --- 200 V CURRENT:16.0A

FEATURES

- Metal-semiconductor junction with guard ring

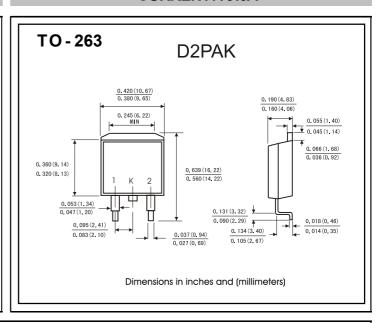
- For use in low voltage, high frequency inverters free wheeling, and polarity protection applications

MECHANICAL DATA

- \bigcirc Terminals: Axial lead ,solderable per

MIL-STD-202, Method 208

- ♦ Weight: 0.08ounces,2.24 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

		Symbols	SR 1620	SR 1630	SR 1640	SR 1650	SR 1660	SR 1680	SR 16100	SR 16150	SR 16200	Units
Maximum repetitive peak reverse voltage		Vrrm	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS voltage		VRMS	14	21	28	35	42	56	70	105	140	Volts
Maximum DC blocking voltage		VDC	20	30	40	50	60	80	100	150	200	Volts
Maximum average forward rectified current See Fig. 1		I(AV)	16.0								Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		İfsm	200.0								Amps	
Maximum instantaneous forward voltage at 16.0 A		VF	0. 60			(0.75	0.85		0.90	0.95	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	T _c =25°C	1_	0.2									mA
	T _c = 125°C	I R	30 50									
Typical thermal resistance (Note 2)		$R_{ heta}$ JC	3. 0									°C/W
Operating junction temperature range		Tu	-65 to+150									°C
Storage temperature range		TstG	-65 to+150									Č

NOTE: 1. Pulse test:300us pulse width,1% duty cycle.

2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

3. Thermal resistance junction to ambient

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FIG.1-FORWARD CURRENT DERATING CURVE

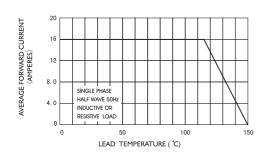
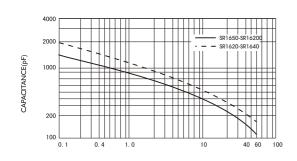


FIG.4-TYPICAL JUNCTION CAPACITANCE



REVERSE VOLTAGE (VOLTS)

FIG.5-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

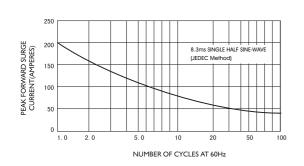


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

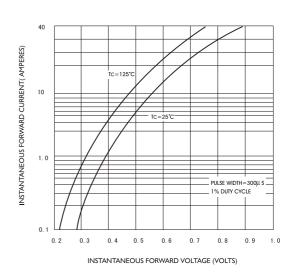
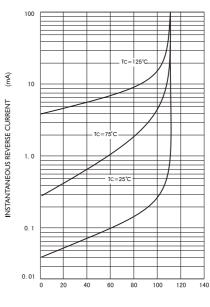


FIG.3-TYPICAL REVERSE CHARACTERISTICS



PERCENT OF RATED PEAK REVERSE VOLTAGE

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