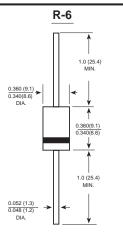
20SQ045

SCHOTTKY BARRIER RECTIFIERS

Reverse Voltage - 45 Volts Forward Current - 20 Amperes



Dimensions in inches and (millimeters)

FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Low power loss, high efficiency
- Ultralow forward voltage, high current capability
- High forward surge current capability
- For use in low voltage, high frequency inverters free wheeling, and polarlity protection applications

MECHANICAL DATA

Case: R-6 molded plastic body

Terminals: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.072 ounce, 2.05 grams

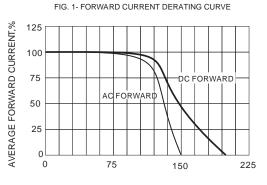
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

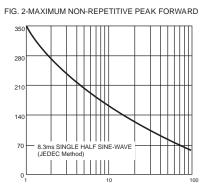
	SYMBOLS	20SQ045	UNITS
Maximum repetitive peak reverse voltage	Vrrm	45	VOLTS
Maximum RMS voltage	VRMS	32	VOLTS
Maximum DC blocking voltage	VDC	45	VOLTS
Maximum average forward rectified current	l(AV)	20	Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	Іғѕм	350	Amps
Maximum instantaneous forward voltage at 20A	VF	0.55	Volts
Maximum DC reverse current TJ=25°C at rated DC blocking voltage TJ=100°C	l _R	0.5 20	mA
Typical thermal resistance (NOTE 1)	R _θ Jc	2.2	°C/W
	R _θ JL	2.0	
	Reja	45	
Operating junction temperature range	TJ	-50 to +200	°C
Storage temperature range	Тѕтс	-50 to +200	°C



RATINGS AND CHARACTERISTIC CURVES 20SQ045

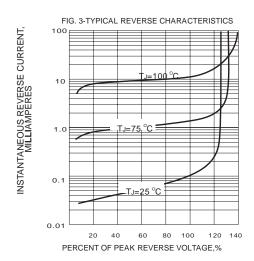


PEAK FORWARD SURGE CURRENT, AMPERES

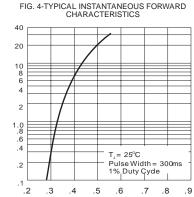


CASE TEMPERATURE. °C

NUMBER OF CYCLES AT 60 Hz



INSTANTANEOUS FORWARD CURRENT,AMPERES



INSTANTANEOUS FORWARD VOLTAGE, VOLTS