

TECHNICAL SPECIFICATIONS OF 16.0AMP SCHOTTKY BARRIER RECTIFIERS



VOLTAGE RANGE

20 to 60 Volts

CURRENT

16.0 Amperes

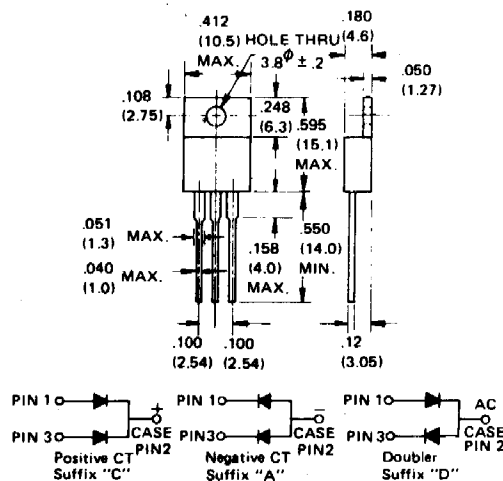
TO-220

FEATURES

- * Low switching noise
- * Low forward voltage drop
- * Low thermal resistance
- * High current capability
- * High switching capability
- * High surge capability
- * High reliability

MECHANICAL DATA

- * Case: TO-220 molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminal: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 2.24 grams



Dimensions in inches and (millimeters)

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 current by 20%

	SR1602	SR1603	SR1604	SR1605	SR1606	UNITS
Maximum Recurrent Peak Reverse Voltage	20	30	40	50	60	V
Maximum RMS Voltage	14	21	28	35	42	V
Maximum DC Blocking Voltage	20	30	40	50	60	V
Maximum Average Forward Rectified Current .375" (9.5mm) lead length	16					A
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	200					A
Maximum Instantaneous Forward Voltage at 8.0A DC	.65		.75			V
Minimum Average Reverse Current at Rated DC Blocking Voltage T _C = 25°C	10					mA
Typical Thermal Resistance R _{θJC} (Note 1)	3					°C/W
Operating Temperature Range T _J	-65 to +125			-65 to +150		°C
Storage Temperature Range T _{STG}	-65 to +150					°C

NOTES:

1. Thermal Resistance Junction to Case

