

PFS

SCHOTTKY BARRIER RECTIFIERS

10SQ050

VOLTAGE RANGE
CURRENT

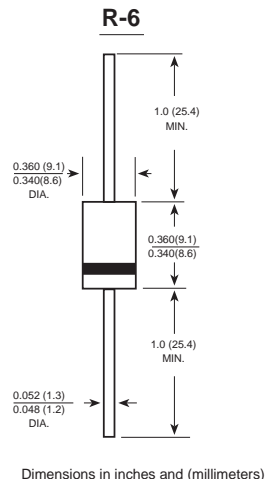
60 Volts
10.0 Ampere

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 polarity 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	10SQ050	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	60	VOLTS
Maximum RMS voltage	V_{RMS}	42	VOLTS
Maximum DC blocking voltage	V_{DC}	60	VOLTS
Maximum average forward rectified current	$I_{(AV)}$	10	Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	275	Amps
Maximum instantaneous forward voltage at 10A	V_F	0.55	Volts
Maximum DC reverse current $T_J=25^{\circ}C$ at rated DC blocking voltage $T_J=100^{\circ}C$	I_R	0.1 50	mA
Typical thermal resistance	$R_{\theta JC}$	2.7	$^{\circ}C/W$
Operating junction temperature range	T_J	-50 to +200	$^{\circ}C$
Storage temperature range	T_{STG}	-50 to +200	$^{\circ}C$

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FIG. 1- FORWARD CURRENT DERATING CURVE

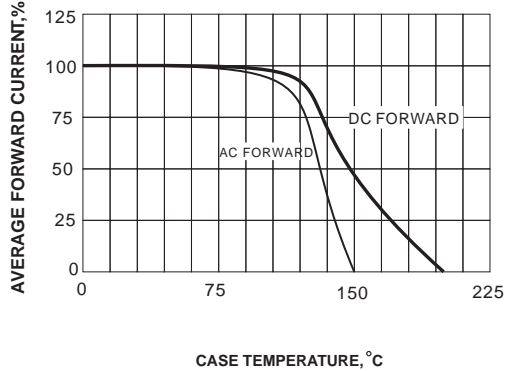


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

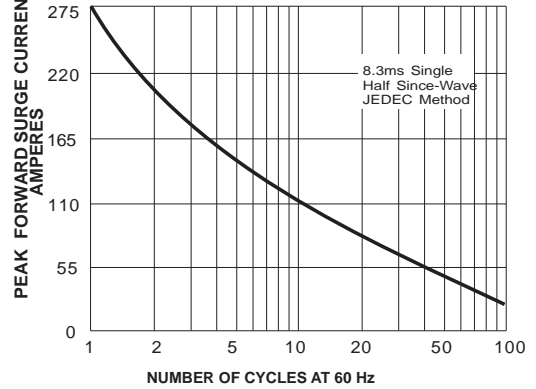


FIG. 3-TYPICAL REVERSE CHARACTERISTICS

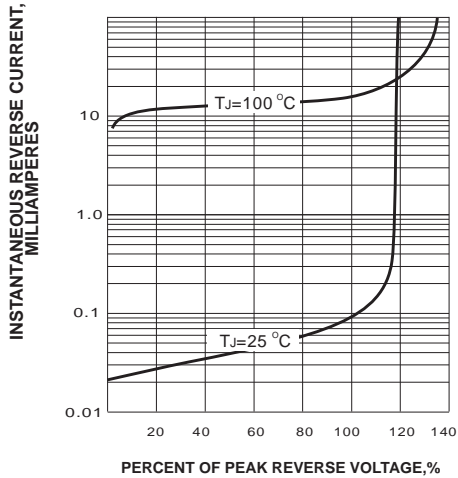


FIG. 4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

