

PFS

SCHOTTKY BARRIER RECTIFIERS

10SQ050

VOLTAGE RANGE
CURRENT

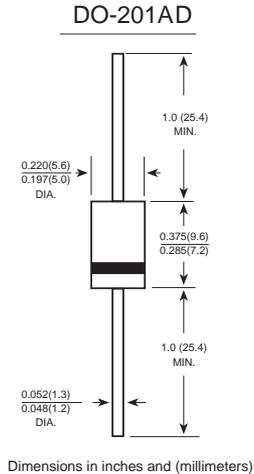
50 Volts
10 Ampere

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: JEDEC DO-201AD molded plastic body
- Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight:0.04 ounce, 1.10 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}	50	VOLTS
Maximum RMS voltage	V_{RMS}	35	VOLTS
Maximum DC blocking voltage	V_{DC}	50	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}	200	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	0.5 100	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

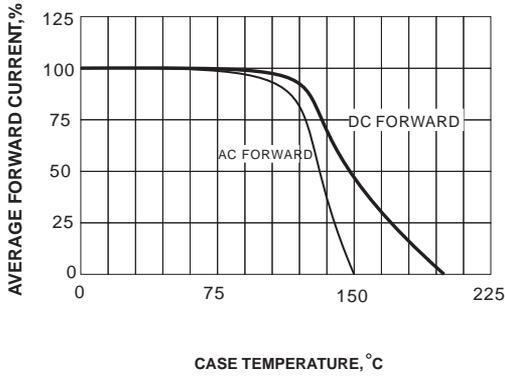


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

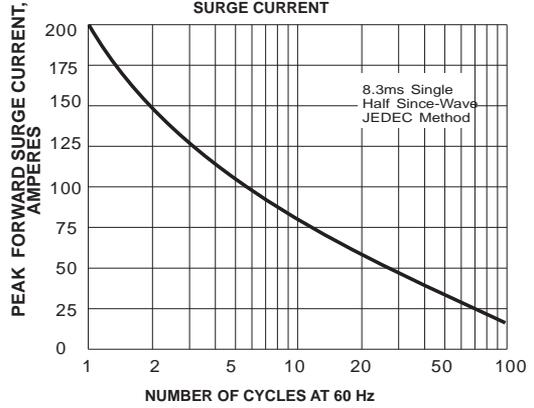


FIG. 3-TYPICAL REVERSE CHARACTERISTICS

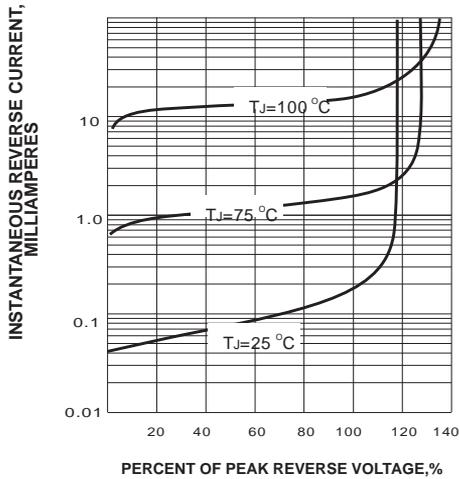


FIG. 4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

