10A SCHOTTKY BARRIER RECTIFIER

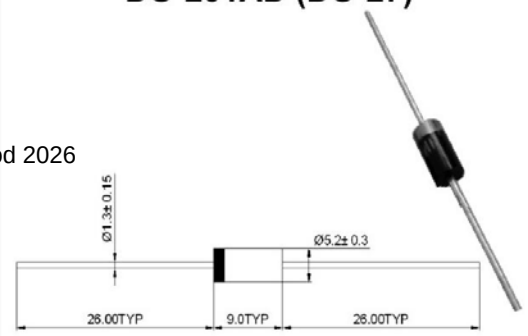
Features

- Metal silicon junction, majority carrier conduction
- Guardring for overvoltage protection
- Low power loss, high efficiency
- High current capability, low forward voltage drop
- High surge capability
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection application

Mechanical Data

- Case: 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: 0.074 ounce, 2.10 grams (approximate)

DO-201AD (DO-27)



Maximum Ratings and Electrical Characteristics

Ratings at 25℃ ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	SR10100	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	100	V
Maximum RMS voltage	V_{RMS}	80	V
Maximum DC blocking voltage	V_{DC}	100	V
Average Rectified Output Current 0.375″ (9.5mm) lead length	I_o	10.0	A
Peak forward surge current, 8.3 mS single half sine-wave superimposed on rated load	I_{FSM}	200	A
Maximum instantaneous forward voltage at I_o	V_F	0.85	V
Maximum DC reverse current @ T_J = 25℃ at rated DC blocking voltage @ T_J = 100℃	I_R	0.1 10.0	mA
Operating junction temperature range	T_J	-55 to +125	℃

Ratings and Characteristic Curves

FIG. 1 – TYPICAL FORWARD CURRENT DERATING CURVE

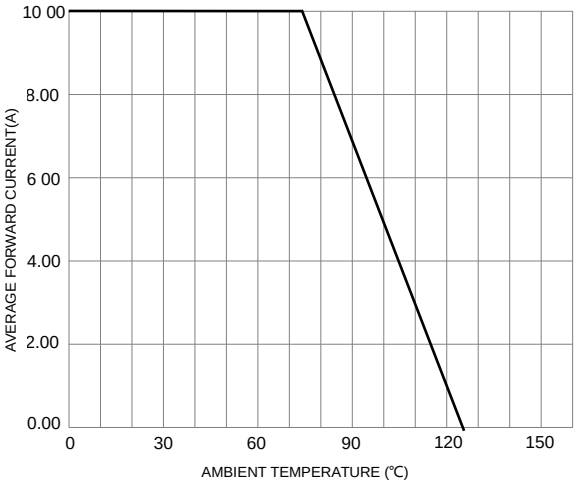


FIG. 2 – TYPICAL FORWARD CHARACTERISTICS

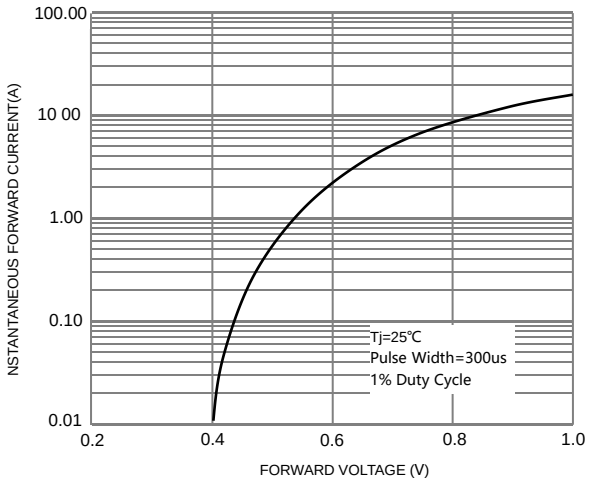


FIG. 3 – MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

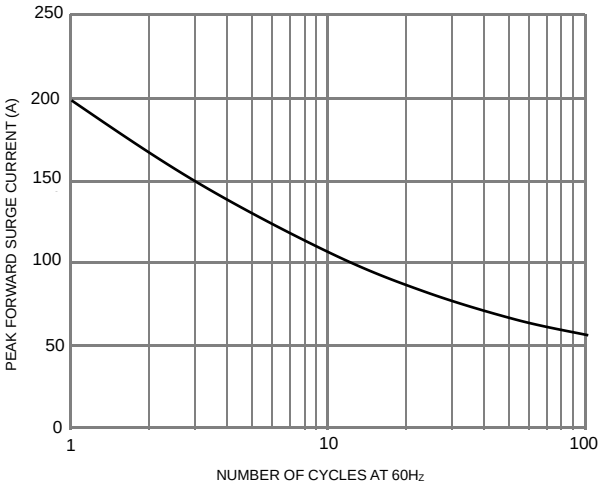


FIG. 4 – TYPICAL REVERSE CHARACTERISTICS