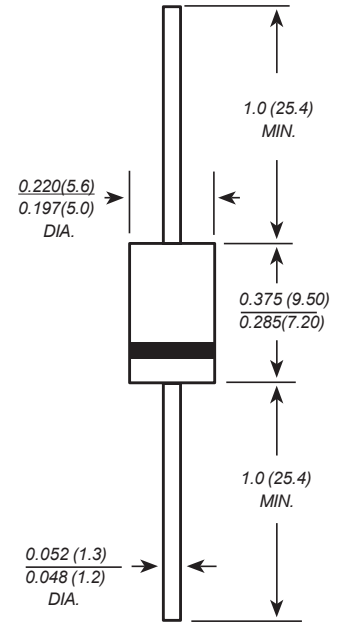


SCHOTTKY BARRIER RECTIFIER

Features

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ Metal silicon junction, majority carrier conduction
- ◆ Low power loss, high efficiency
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed:
250°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

DO-201AD



Dimensions in inches and (millimeters)

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%.

Parameter	SYMBOLS	SR1020	SR1040	SR1045	SR1060	SR1080	SR10100	UNITS
Marking Code								
Maximum repetitive peak reverse voltage	V _{RRM}	20	40	45	60	80	100	V
Maximum RMS voltage	V _{RMS}	14	28	31.5	42	56	70	V
Maximum DC blocking voltage	V _{DC}	20	40	45	60	80	100	V
Maximum average forward rectified current (see fig.1)	I _(AV)	10.0						A
Peak forward surge current 8.3ms single half sine-wave superimposed onrated load (JEDEC Method)	I _{FSM}	250						A
Maximum instantaneous forward voltage at 10.0A	V _F	0.55			0.70	0.85		V
Maximum DC reverse current at rated DC blocking voltage T _A =25℃ T _A =100℃	I _R	0.1 5						mA
Typical junction capacitance ⁽¹⁾	C _J	420						pF
Typical thermal resistance ⁽²⁾	R _{θJA}	12						℃/W
Operating junction and storage	T _J	-65 to+150						℃
Storage temperature range	T _{STG}	-65 to +150						℃

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

Ratings And Characteristic Curves

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

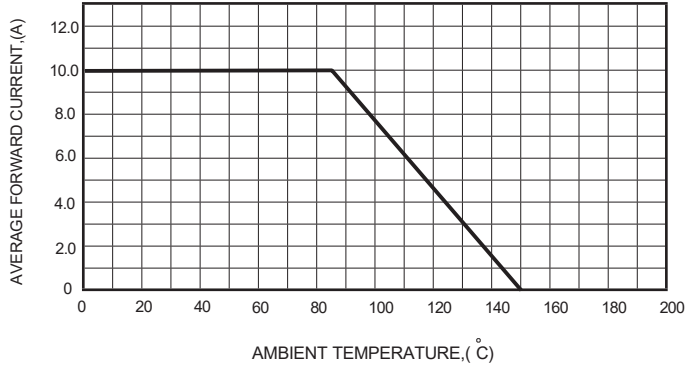


FIG.2-TYPICAL FORWARD CHARACTERISTICS

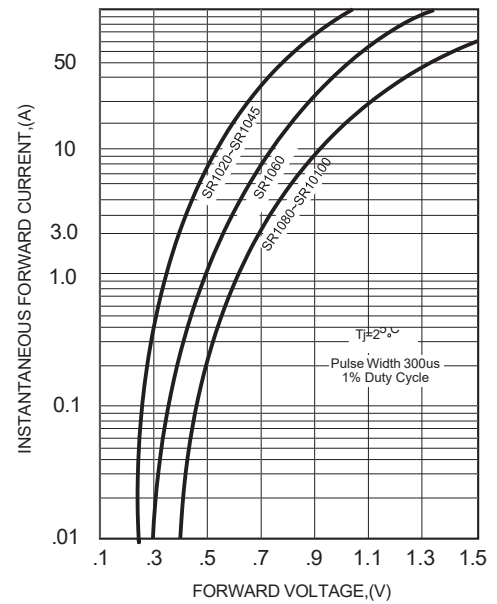


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

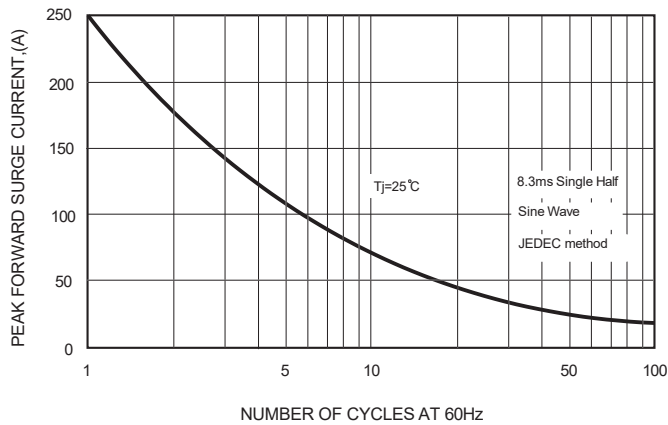


FIG.4-TYPICAL JUNCTION CAPACITANCE

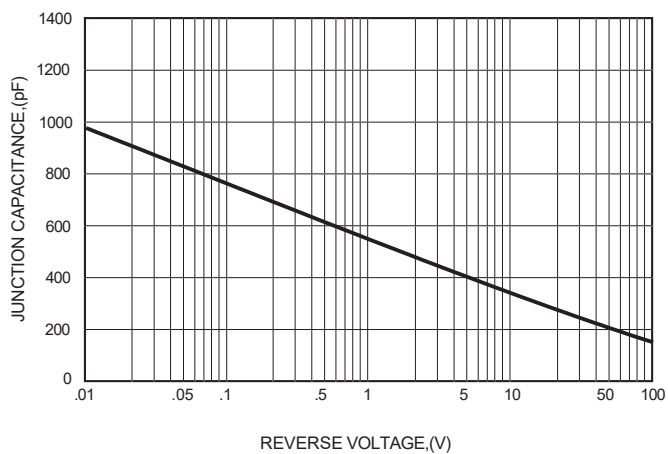
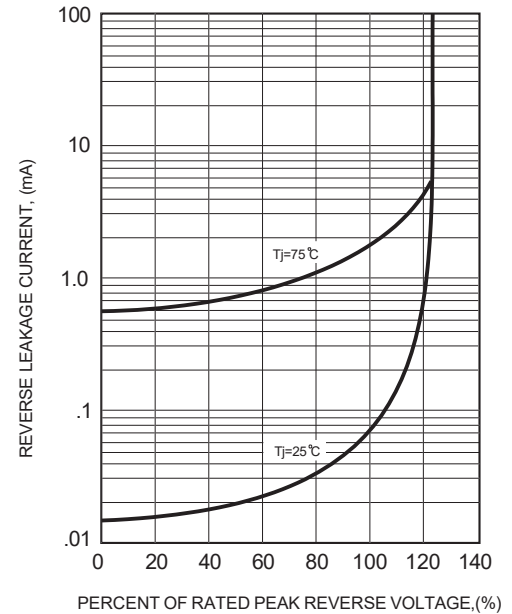


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



The curve above is for reference only.