

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

Mechanical Data

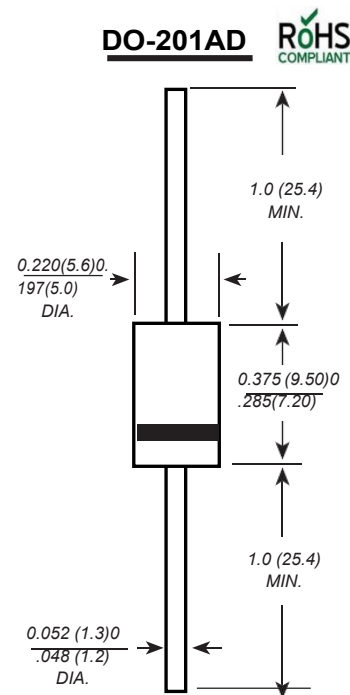
Case : JEDEC DO-201AD Molded plastic body

Terminals : Solder plated, solderable per MIL-STD-750,Method 2026

Polarity : Polarity symbol marking on body

Mounting Position : Any

Weight : 0.04 ounce, 1.10 grams



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%.

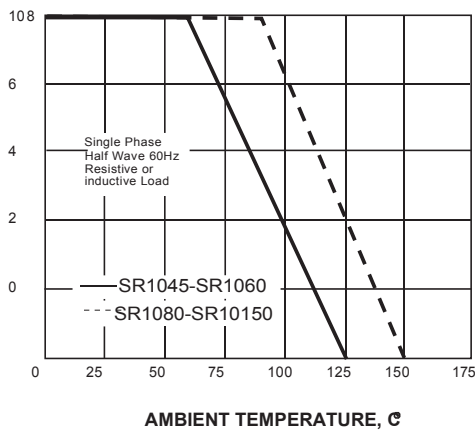
Parameter	SYMBOLS	SR 1045	SR 1050	SR 1060	SR 1080	SR 10100	SR 10150	UNITS
Marking Code		RCD SR 1045	RCD SR 1050	RCD SR 1060	RCD SR 1080	RCD SR 10100	RCD SR 10150	
Maximum repetitive peak reverse voltage	V _{RRM}	45	50	60	80	100	150	V
Maximum RMS voltage	V _{RMS}	32	35	42	56	70	105	V
Maximum DC blocking voltage	V _{DC}	45	50	60	80	100	150	V
Maximum average forward rectified current 0.375"(9.5mm) lead length(see fig.1)	I _(AV)	10.0						A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	275.0						A
Maximum instantaneous forward voltage at 10.0A	V _F	0.45	0.48	0.55	0.75		0.8	V
Maximum DC reverse current at rated DC blocking voltage	I _R	0.3						mA
TA=25℃ TA=100℃		15.0						
Typical junction capacitance (NOTE 1)	C _J	80						pF
Typical thermal resistance (NOTE 2)	RθJA	15.0						℃/W
Operating junction and storage	T _J	- 5 0 t o + 1 5 0 -						℃
Storage temperature range	T _{STG}	50 to +150						℃

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

2.Thermal resistance from junction to ambient at 0.375"(9.5mm)lead length,P.C.B. mounted

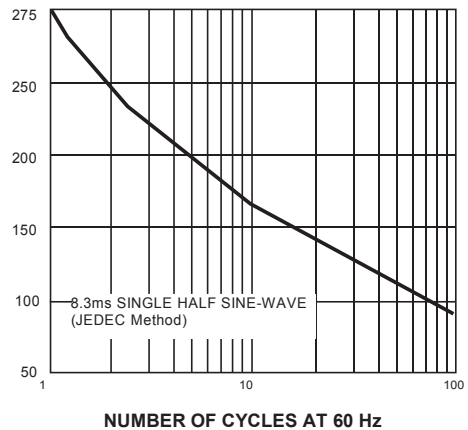
AVERAGE FORWARD RECTIFIED CURRENT,
AMPERES

FIG. 1- FORWARD CURRENT DERATING CURVE



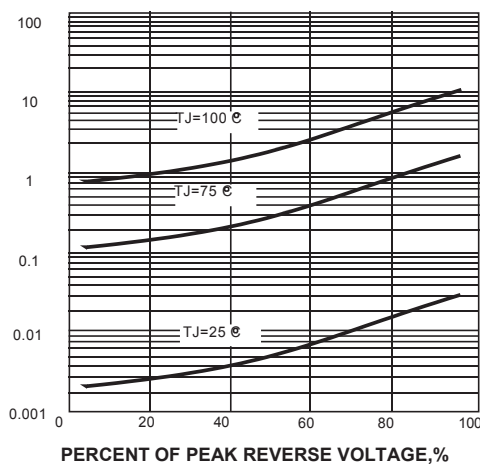
PEAK FORWARD SURGE CURRENT,
AMPERES

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



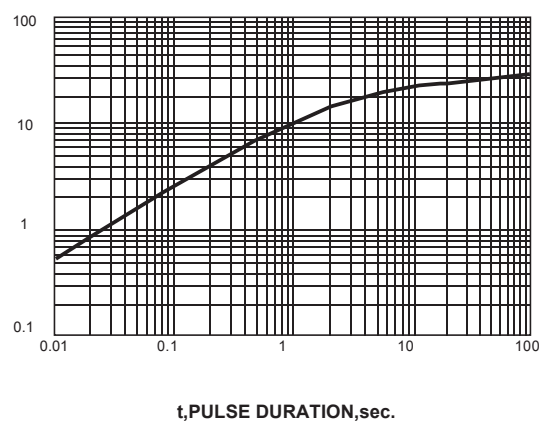
INSTANTANEOUS REVERSE CURRENT,
MILLIAMPERES

FIG. 3-TYPICAL REVERSE CHARACTERISTICS



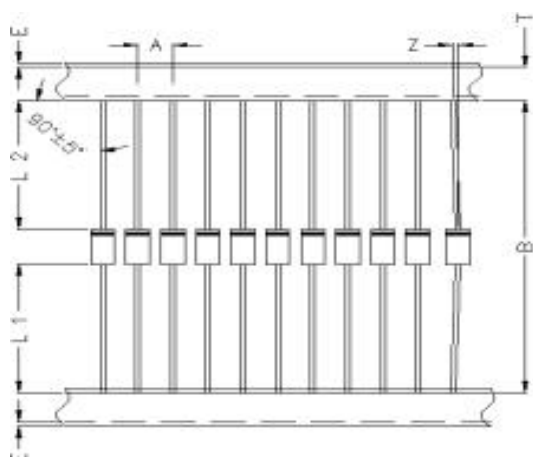
TRANSIENT THERMAL IMPEDANCE,
°C/W

FIG. 4-TYPICAL TRANSIENT THERMAL IMPEDANCE



Packing information

Taping Specifications



Item	Symbol	Specifications(mm)
Component Pitch	A	10.0±0.5
Inner Tape Pitch	B	52.4±1.5
Component alignment	Z	1.2 Max
Tape width	T	6.0±0.5
Exposed adhesive	E	0.8 Max
Body eccentricity	L1-L2	1.0 Max

Ammunition Package Specifications

Package	Inner Box Size (mm)	QTY/Box (pcs)	Carton Size (mm)	Q'TY/Carton (pcs)
DO - 201AD	255*74*145	1000	410*275*340	10000

Bulk Package Specifications

Package	Inner Box Size (mm)	QTY/Box (pcs)	Carton Size (mm)	Q'TY/Carton (pcs)
DO - 201AD	198*86*21	200	460*220*250	10000