

REVERSE VOLTAGE: 20 to 200 VOLTS
FORWARD CURRENT: 5.0 AMPERE

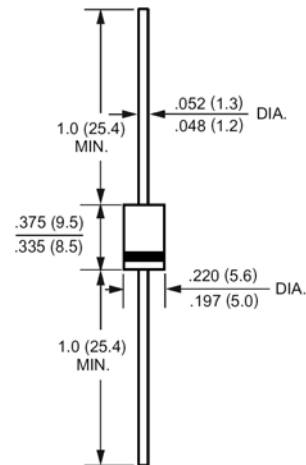
FEATURES

- Low switching noise
- Low forward voltage drop
- High current capability
- High switching capability
- High surge capability
- High reliability

MECHANICAL DATA

Case: Molded plastic, DO-201AD
 Epoxy: UL 94V-O rate flame retardant
 Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
 Polarity: Color band denotes cathode end
 Mounting position: Any
 Weight: 0.04ounce, 1.1gram

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, derate current by 20%.

	SYMBOLS	SR520L	SR530L	SR540L	SR550L	SR560L	SR580L	SR5100L	SR5150L	SR5200L	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	80	100	150	200	VOLTS
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	56	70	105	150	VOLTS
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	80	100	150	200	VOLTS
Maximum average forward rectified current at T_L (see fig.1)	$I_{(AV)}$	5.0									Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	150.0									Amps
Maximum instantaneous forward voltage at 5.0A	V_F	0.45		0.50		0.70		0.83			Volts
Maximum DC reverse current at rated DC blocking voltage $T_A=25^\circ\text{C}$ $T_A=100^\circ\text{C}$	I_R	0.5						0.2			mA
		20			10						
Typical junction capacitance (NOTE 1)	C_J	500			380						pF
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$	15			10						°C/W
Operating junction temperature range	T_J	-55 to +125			-55 to +150						°C
Storage temperature range	T_{STG}	-55 to +150									°C

NOTES:

- 1- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
- 2- Thermal Resistance From Junction to Ambient 0.375"(9.5mm) lead length P.C.B. Mounted

RATINGS AND CHARACTERISTIC CURVES

FIG. 1- FORWARD CURRENT DERATING CURVE

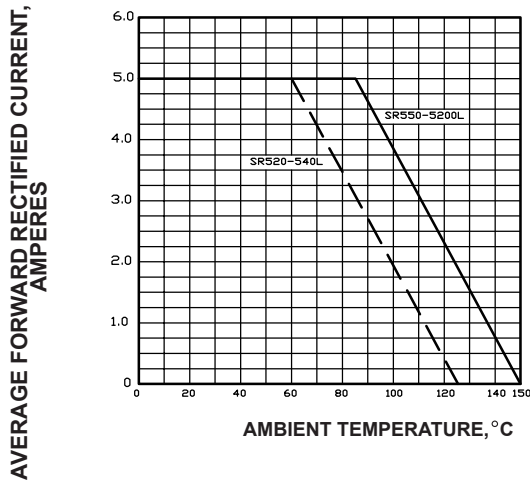


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORW SURGE CURRENT

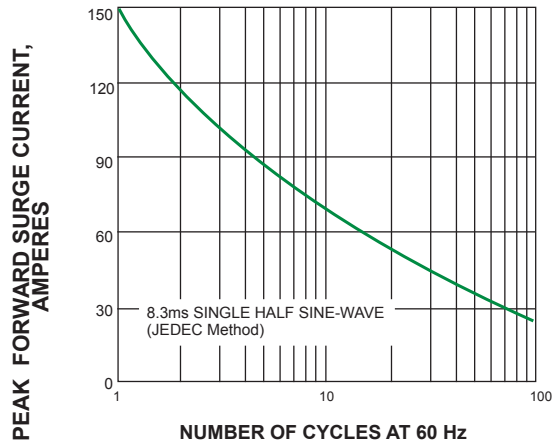


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

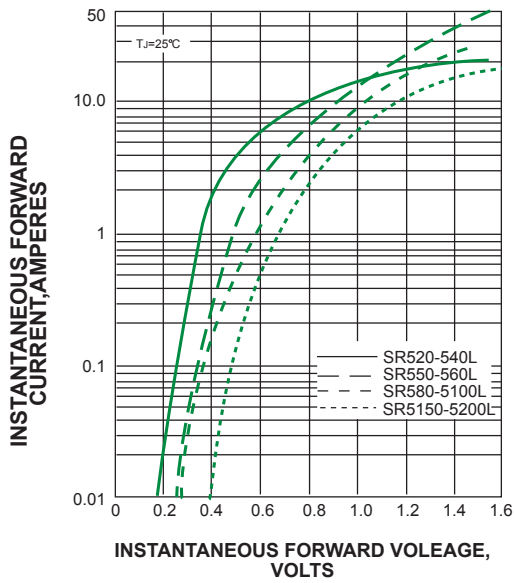


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

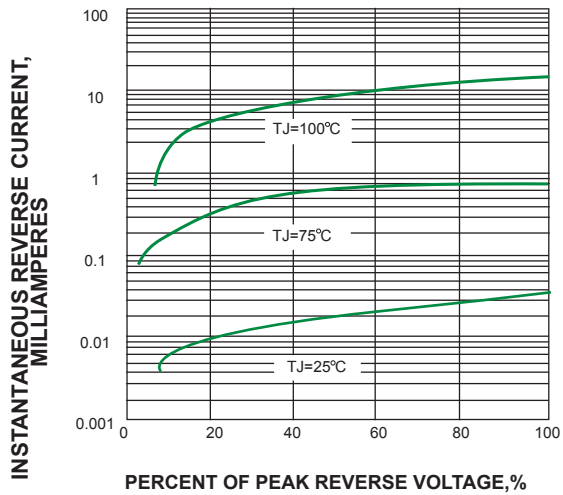


FIG. 5-TYPICAL JUNCTION CAPACITANCE

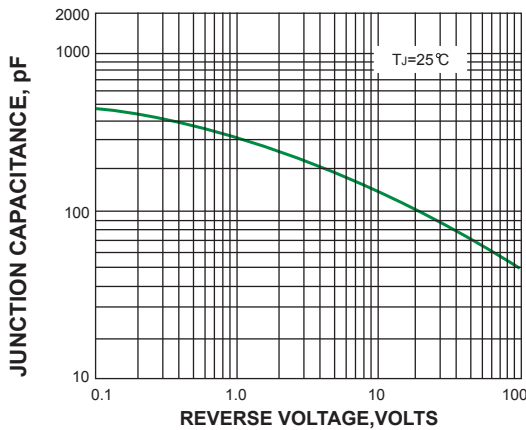
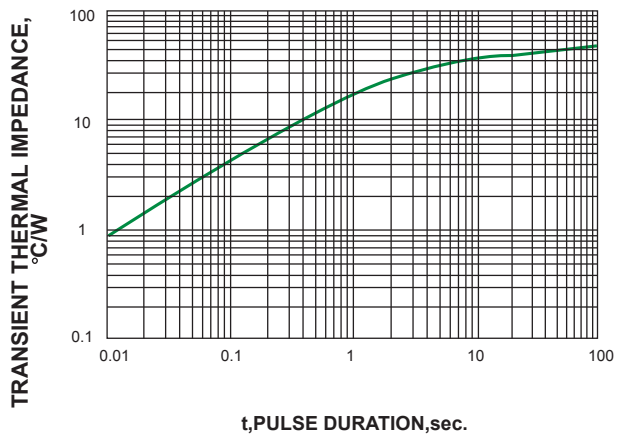


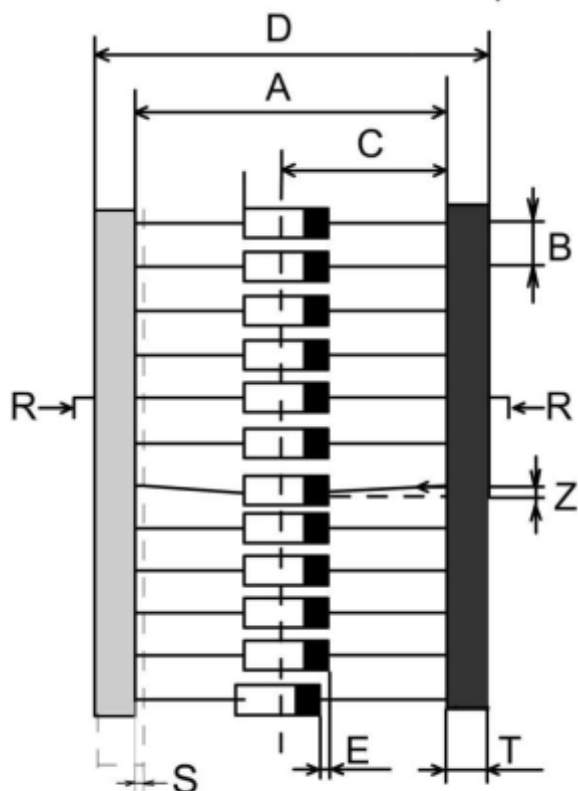
FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE



Package Information

Taping Specifications

编带尺寸图 (Tape size)
单位:mm (Unit :mm)



尺寸代号 (size symbol)	标准值 (standard value)
	DO-27
	T52
A	$52^{+0.5}_{-0}$
B	10 ± 0.5
C	$1/2A \pm 0.5$
D	64 ± 1.0
E	≤ 1.0
R	0
Z	≤ 1.0
S	≤ 0.8
T	6.0 ± 1.0

Ammunition Package Specifications

Package	Inner Box Size (mm)	Q, TY/Box (Kpcs)	Carton Size (mm)	Q, TY/Carton Q, TY/
DO-27	255*150*75	1.25	410*270*320	12.5