NINGBO KLS ELECTRONIC CO.,LTD.

GENERAL PURPOSE SILICON RECTIFIER

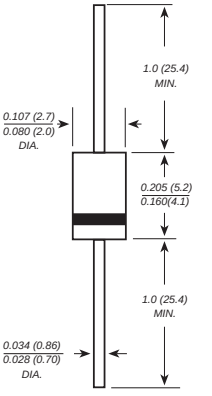
BY127 THRU BY133

VOLTAGE RANGE 1250 to1300 Volts
CURRENT 1.0 Ampere

FEATURES

- The plastic package carries Underwriters Laboratory
- Flammability Classification 94V-0
- Construction utilizes void-free
- molded plastic technique
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed:
  250℃/10 seconds,0.375"(9.5mm) lead length,
  5 lbs. (2.3kg) tension

DO-41



Dimensions in inches and (millimeters)

MECHANICAL DATA

- Case : JEDEC DO-41 molded plastic body
- Terminals : Plated axial leads, solderable per MIL-STD-750, Method 2026
- Polarity : Color band denotes cathode end
- Mounting Position : Any
- Weight :0.012 ounce, 0.33 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25℃ ambient temperature unless otherwise specified.
- Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

	SYMBOLS	**BY127**	**BY133**	**UNITS**
Maximum repetitive peak reverse voltage	V_{RRM}	1250	1300	VOLTS
Maximum RMS voltage	V_{RMS}	875	910	VOLTS
Maximum DC blocking voltage	V_{DC}	1250	1300	VOLTS
Maximum average forward rectified current 0.375"(9.5mm) lead length at T_A=75℃	$I_{(AV)}$	1.0		Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	30.0		Amps
Maximum instantaneous forward voltage at 1.0A	V_F	1.1		Volts
Maximum DC reverse current T_A=25℃ at rated DC blocking voltage T_A=100℃	I_R	5.0 50.0		μA
Typical junction capacitance (NOTE 1)	C_J	15.0		pF
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$	50.0		°C/W
Operating junction and storage temperature range	T_J,T_{STG}	-65 to +175		°C

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

BY127 THRU BY133

VOLTAGE RANGE 1250 to1300 Volts
CURRENT 1.0 Ampere

FIG. 1- FORWARD CURRENT DERATING CURVE

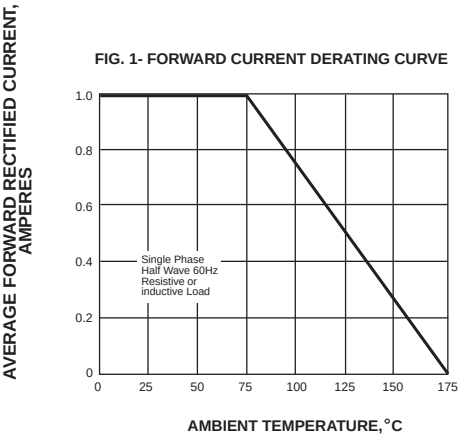


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

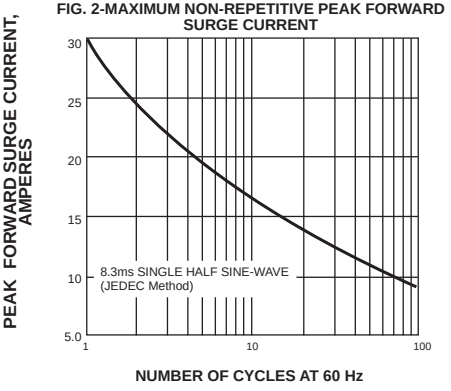


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

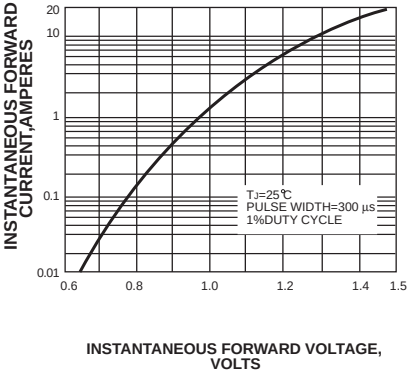


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

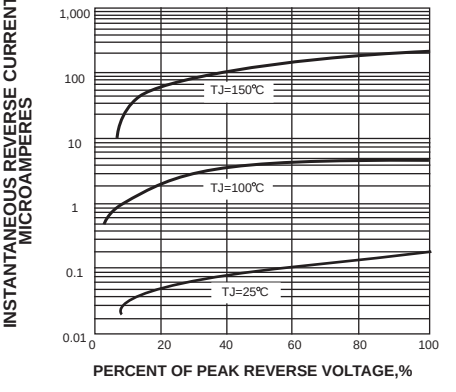


FIG. 5-TYPICAL JUNCTION CAPACITANCE

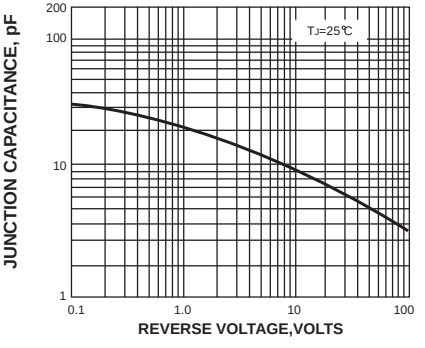


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE