BY133G

1.0 Amp. Glass Passivated Rectifier

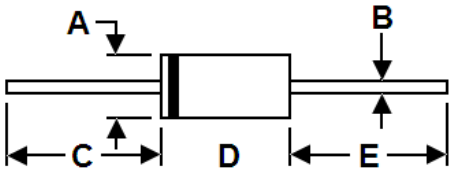
Features

* Low Forward Voltage Drop
* High Current Capability
* High Reliability
* High Surge Current Capability

RoHS COMPLIANT

Package Outline Dimensions

DO-41：



DIM.	Unit（mm）		Unit（inch）	
	Min	Max	Min	Max
A	2.0	2.7	0.078	0.107
B	0.7	0.9	0.027	0.035
C	25.4	-	1.0	-
D	4.2	5.2	0.165	0.205
E	25.4	-	1.0	-

Mechanical Data

* Case: Molded plastic
* Epoxy: UL 94V-0 rate flame retardant
* Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
* Polarity: Color band denotes cathode end
* Mounting Position: Any

Maximum Ratings and Electrical Characteristics

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

Type Number	**Symbol**	**BY133G**	**Unit**
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	1300	V
Maximum RMS Voltage	V_{RMS}	910	V
Maximum D.C Blocking Voltage	V_{DC}	1300	V
Maximum Average Forward Rectified Current .375" (9.5mm)Lead Length @ T_A=60℃	$I_{F(AV)}$	1.0	A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	30	A
Maximum Instantaneous Forward Voltage at 1.0A	V_F	1.1	V
Maximum D.C Reverse Current @ T_A=25℃ at Rated D.C Blocking Voltage @ T_A=125℃	I_R	5.0 100	μA
Typical Junction Capacitance(Note1)	C_J	15	pF
Operating and Storage Temperature Range	T_J/T_{STG}	-55 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

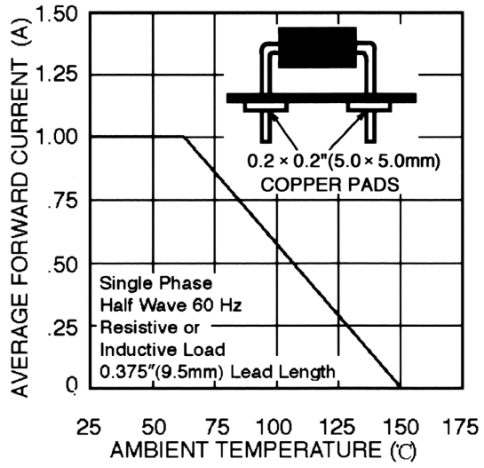


FIG. 2 – MAXIMUM NON – REPETITIVE FORWARD SURGE CURRENT

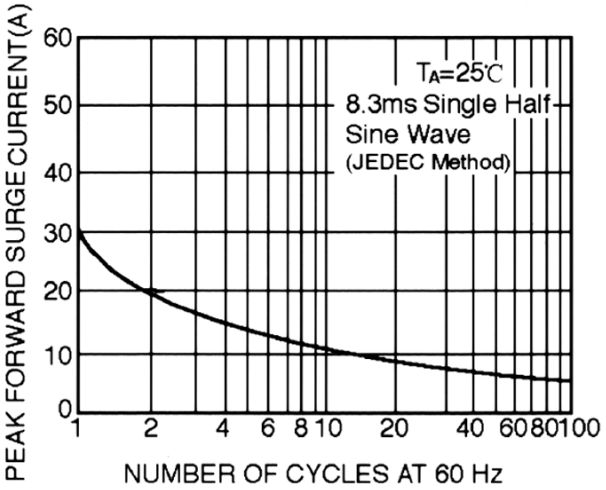


FIG. 3 – TYPICAL FORWARD CHARACTERISTICS

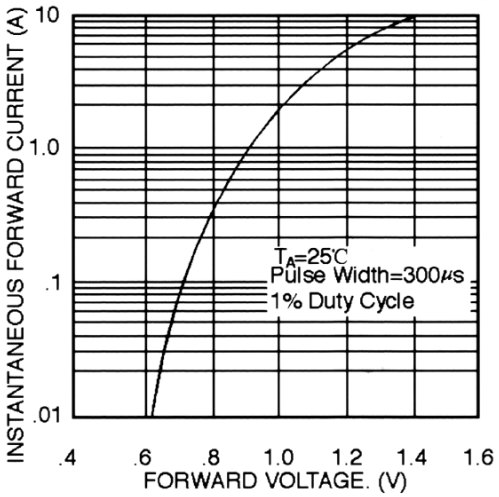
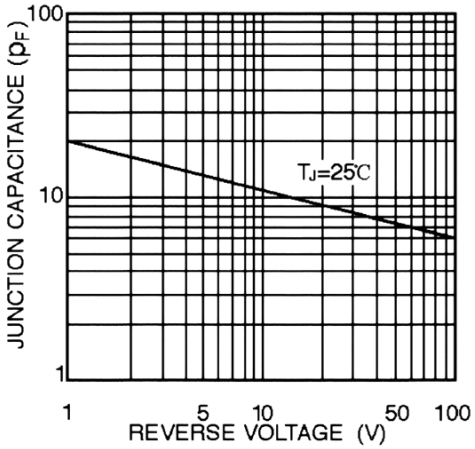


FIG. 4 – TYPICAL JUNCTION CAPACITANCE



Ordering Information

Part No.	Package	Packing
BY133G	DO-41	3K/AMMO box
BY133G	DO-41	5K/AMMO box
BY133G	DO-41	5K/13" Paper reel
BY133G	DO-41	1K/Bulk packing