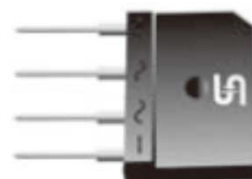


Features

- ✧ UL Recognized File # E-326243
- ✧ Glass passivated junction
- ✧ Ideal for printed circuit board
- ✧ Plastic material has Underwriters Laboratory Flammability Classification 94V-0
- ✧ Typical IR less than 0.1uA
- ✧ High surge current capability to 350A
- ✧ High temperature soldering guaranteed: 260°C/10 seconds
- ✧ Green compound with suffix "G" on packing code & prefix "G" on datecode



Mechanical Data

- ✧ Case: Molded plastic body
- ✧ Terminals: Pure tin plated, lead free, solderable per MIL-STD-202, Method 208 guaranteed
- ✧ Weight: 7.15 grams
- ✧ Mounting Torque : 8.17 in-lbs Max.

Ordering Information (example)

Part No.	Package	Packing	Packing code	Packing code (Green)
TS35P05G	TS-6P	15 / TUBE	C2	C2G

Maximum Ratings and Electrical Characteristics

Rating at 25 °C 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	TS35P05G	TS35P06G	TS35P07G	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	600	800	1000	V
Maximum Average Forward Rectified Current (With Heatsink)	$I_{F(AV)}$	35			A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	350			A
Rating of fusing (t<8.3ms)	I^2T	508			A ² S
Maximum Instantaneous Forward Voltage @ 17.5A (Note 1)	V_F	1.1			V
Maximum Reverse Current @ Rated VR $T_A=25\text{ }^\circ\text{C}$ $T_A=125\text{ }^\circ\text{C}$	I_R	10 500			uA
Typical Junction Capacitance per leg (Note 2)	C_j	140			pF
Typical Thermal Resistance	$R_{\theta JA}$	20			°C/W
Operating Temperature Range	T_J	-55 to +150			°C
Storage Temperature Range	T_{STG}	-55 to +150			°C

Note 1 : Pulse Test with PW=300 usec, 1% Duty Cycle

Note 2 : Measured at 1MHz and applied Reverse bias of 4.0V DC.

RATINGS AND CHARACTERISTIC CURVES (TS35P05G THRU TS35P07G)

FIG.1 FORWARD CURRENT DERATING CURVE

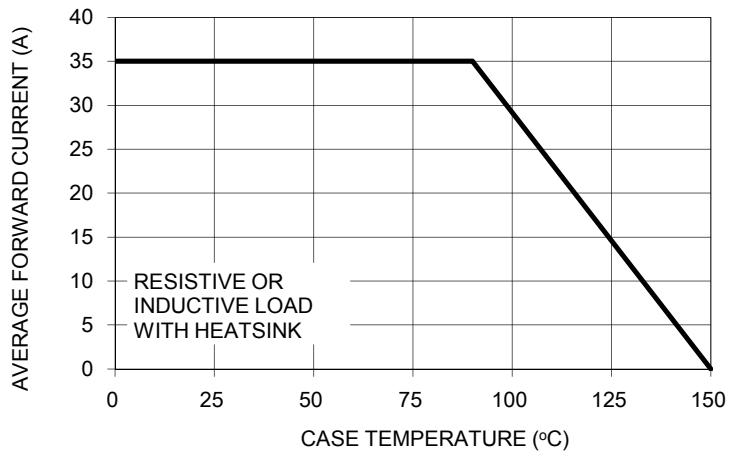


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

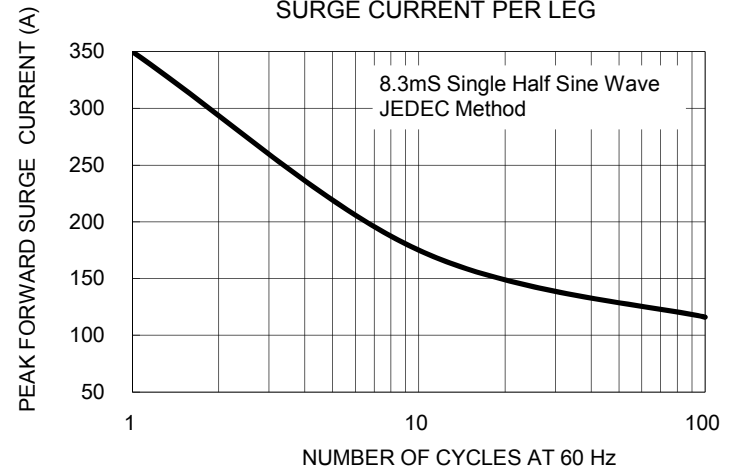


FIG. 3 TYPICAL REVERSE CHARACTERISTICS PER LEG

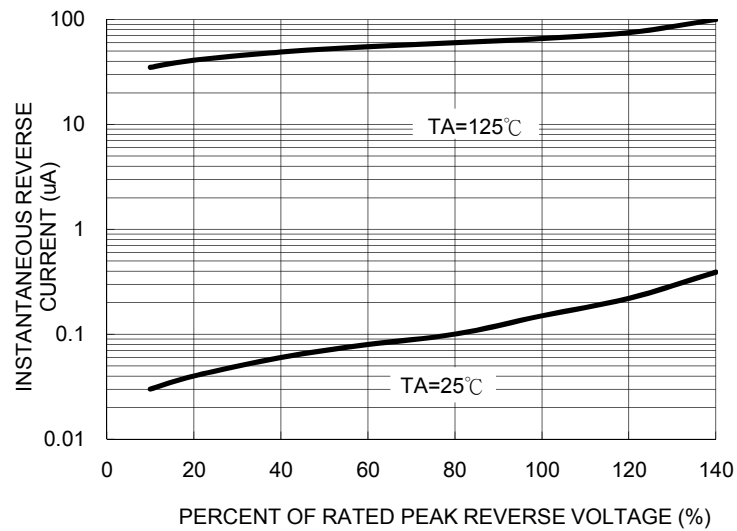


FIG. 4 TYPICAL FORWARD CHARACTERISTICS PER LEG

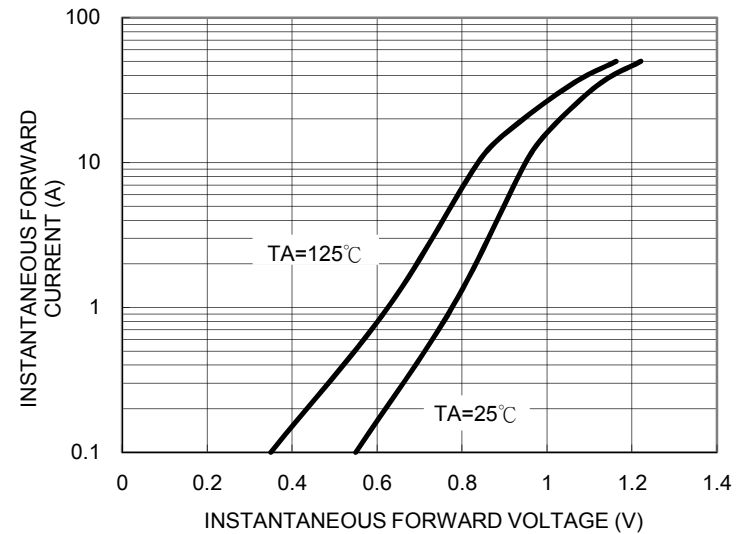
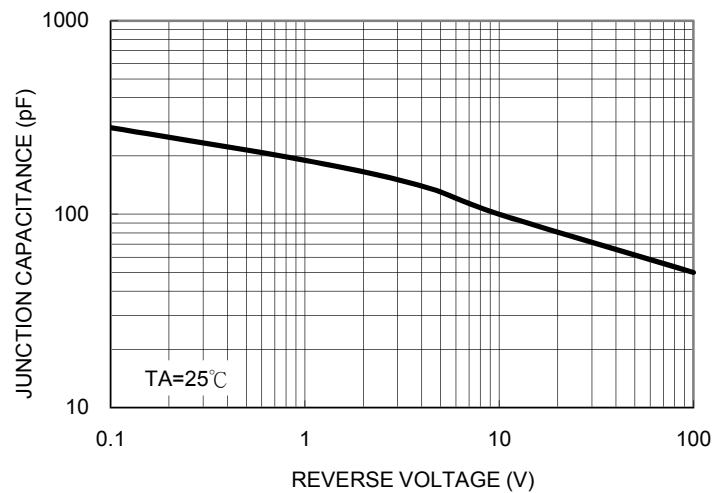


FIG. 5 TYPICAL JUNCTION CAPACITANCE PER LEG



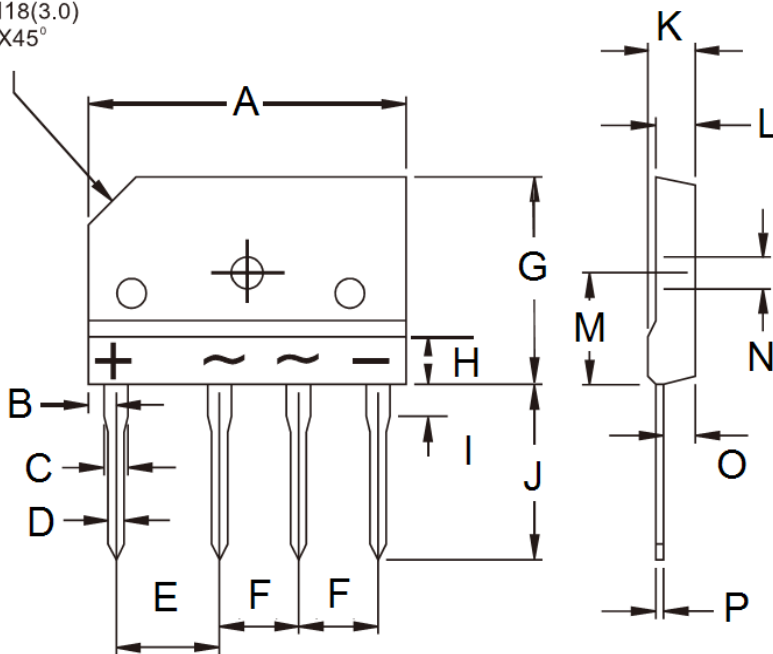
Ordering information

Part No.	Package	Packing	Packing code	Packing code (Green)
TS35P0xG (Note)	TS-6P	15 / TUBE	C2	C2G
	TS-6P	Forming	X0	X0G
	TS-6P	15 / TUBE (Auto)	D2	D2G
	TS-6P	Forming	X2	X2G

Note: "x" is Device Code from "5" thru "7".

Dimensions

C .118(3.0)
X45°



DIM.	Unit(mm)		Unit(inch)	
	Min	Max	Min	Max
A	29.70	30.30	1.169	1.193
B	2.30	2.70	0.091	0.106
C	2.00	2.40	0.079	0.094
D	0.90	1.10	0.035	0.043
E	9.80	10.20	0.386	0.402
F	7.30	7.70	0.287	0.303
G	19.70	20.30	0.776	0.799
H	-	4.80	-	0.189
I	3.80	4.20	0.150	0.165
J	17.00	18.00	0.669	0.709
K	4.40	4.80	0.173	0.189
L	3.40	3.80	0.134	0.150
M	10.80	11.20	0.425	0.441
N	3.10	3.40	0.122	0.134
O	2.50	2.90	0.098	0.114
P	0.60	0.70	0.024	0.028

Marking Diagram



P/N = Specific Device Code
 G = Green Compound
 YWW = Date Code