

- Typical IR less than 0.1uA
- High surge current capability
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition



TS-6P

MECHANICAL DATA

Case : TS-6P

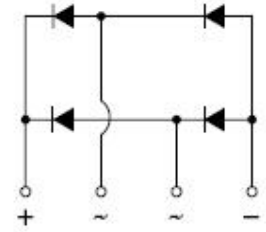
Molding compound, UL flammability classification rating 94V-0
 Base P/N with suffix "G" on packing code - halogen-free, RoHS compliant

Terminal : Matte tin plated leads, solderable per JESD22-B102
 Meet JESD 201 class 1A whisker test

Polarity : Polarity as marked on the body

Mounting torque : 8.17 in-lbs maximum

Weight : 7.15 gram (approximately)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	TS20P	TS20P	TS20P	TS20P	TS20P	TS
		01G	02G	03G	04G	05G	0
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800
Maximum average forward rectified current	I _{F(AV)}	20					
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	250					
Rating for fusing (t<8.3mS)	I ² T	259					
Maximum instantaneous forward voltage (Note 1) @ 10 A @ 20 A	V _F					1.0 1.1	
Maximum DC reverse current at rated DC blocking voltage	I _R					10 500	
Typical thermal resistance	R _{θJC}	0.8					
Operating junction temperature range	T _J	- 55 to + 150					
Storage temperature range	T _{STG}	- 55 to + 150					

Note 1 : Pulse test with PW=300u sec, 1% duty cycle

(Note 1)	D2	SMD G	TS-6P	15 / TUBE (Auto)
	X2			Forming

Note 1: "x" defines voltage from 50V (TS20P01G) to 1000V (TS20P07G)

EXAMPLE

PREFERRED P/N	PART NO.	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION
TS20P07G C2	TS20P07G	C2		
TS20P07G C2G	TS20P07G	C2	G	Green compound

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)

FIG.1 MAXIMUM DERATING CURVE FOR OUTPUT CURRENT

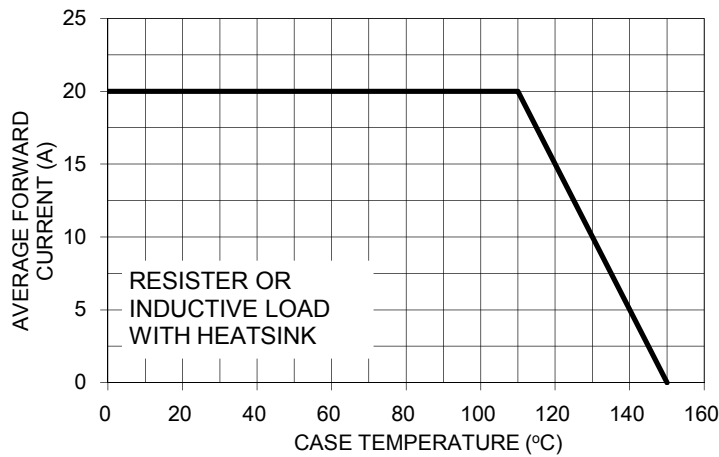


FIG. 2 MAXIMUM FORWARD SURGE

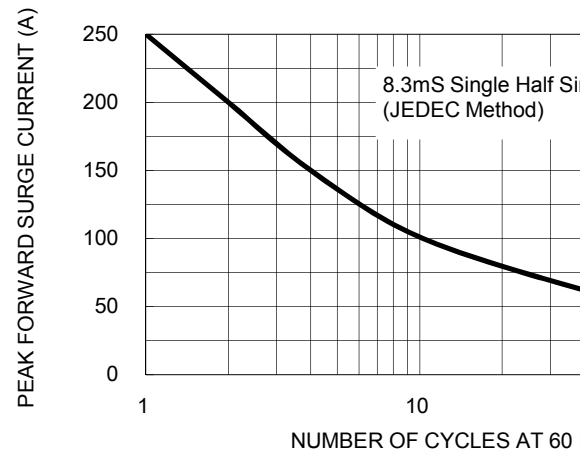


FIG. 3 TYPICAL REVERSE CHARACTERISTICS

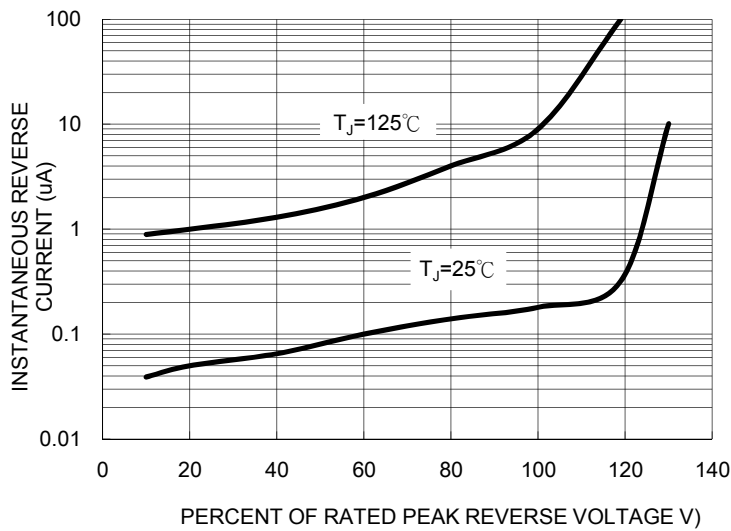
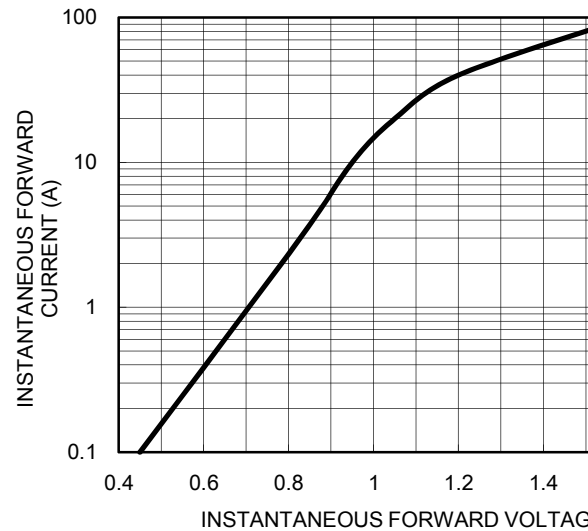
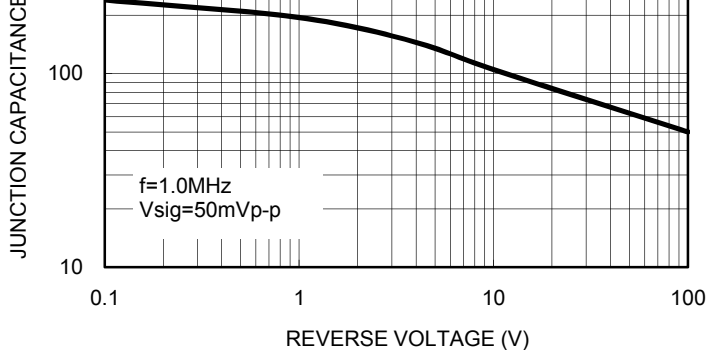
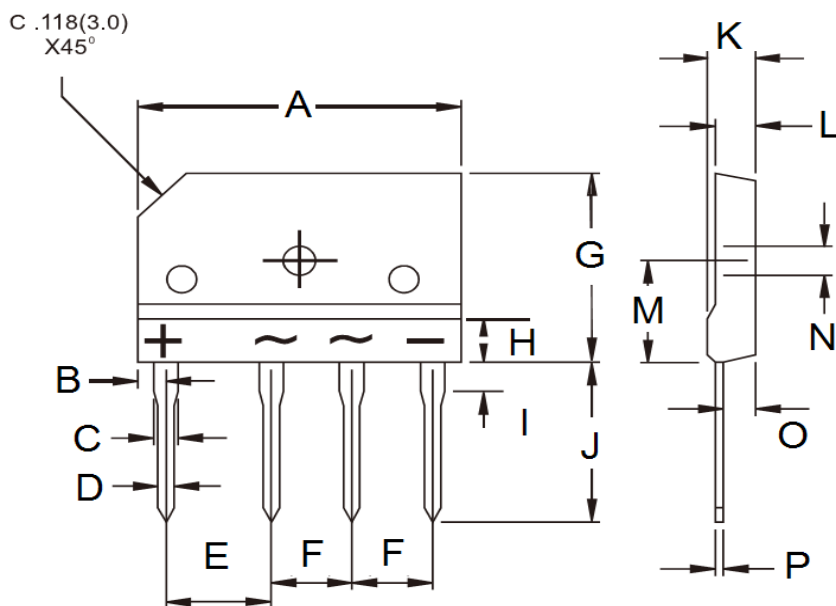


FIG. 4 TYPICAL FORWARD CHARACTERISTICS





PACKAGE OUTLINE DIMENSIONS



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

MARKING DIAGRAM



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