<u>Tsc</u>

TS20P01G THRU TS20P07G

Single Phase 20.0 AMPS. Glass Passivated Bridge Rectifiers



Voltage Range 50 to 1000 Volts Current 20.0 Amperes

TS-6P

Features

- ♦ UL Recognized file # E-96005
- Glass passivated junction
- ♦ Ideal for printed circuit board
- ♦ Reliable low cost construction
- Plastic material has Underwriters Laboratory Flammability Classification 94V-0
- ♦ Surge overload rating to 250 amperes peak
- → High case dielectric strength of 2000 V_{RMS}

Mechanical Data

♦ Case: Molded plastic

Terminals: Leads solderable per MIL-STD-750. Method 2026

♦ Weight: 0.3 ounce, 8 grams

♦ Mounting torque: 8.17 in. lbs. max.

C.118(3.0) X45' 1.193(30.3) 1.169(29.7) 1.199(20.3) 776(19.7) 1.189(4.8) 1.150(3.8) 1.150(3.8) 1.150(3.8) 1.14(3.4) 1.150(3.8) 1.150(3.8) 1.150(3.8) 1.169(2.7) 1.189(4.8) 1.150(3.8) 1.169(2.7) 1.165(4.2) 1.165(4.2) 1.165(4.2) 1.165(4.2) 1.165(4.2) 1.166(7.0) 1.14(2.9) 1.169(7.0)

Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

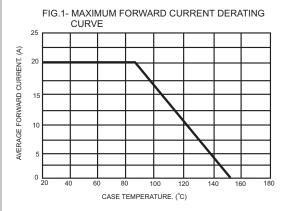
For capacitive load, derate current by 20%

Type Number	Symbol	TS20P 01G	TS20P 02G	TS20P 03G	TS20P 04G	TS20P 05G	TS20P 06G	TS20P 07G	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current See Fig. 1	I _(AV)	20.0							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	250							Α
Maximum Instantaneous Forward Voltage @ 20.0A	V _F	1.1							٧
Maximum DC Reverse Current @ T _A =25°C	I_R	10.0							uA
at Rated DC Blocking Voltage @ T _A =125°C	יא	500							uA
Typical Thermal Resistance (Note)	$R\theta_{JC}$	0.8							℃W
Operating Temperature Range	TJ	-55 to +150							\mathbb{C}
Storage Temperature Range	T _{STG}	-55 to + 150							ပ္

Note: Thermal Resistance from Junction to Case with Device Mounted on 5" x 7" x 0.25" Al-Plate Heatsink.



RATINGS AND CHARACTERISTIC CURVES (TS20P01G THRU TS20P07G)



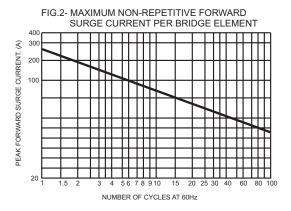
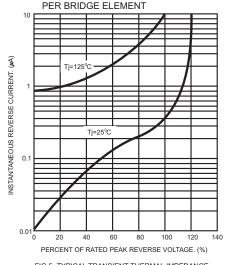


FIG.3- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT



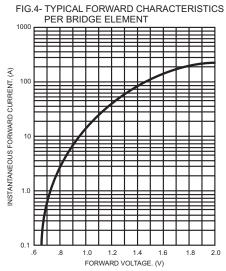


FIG.5- TYPICAL TRANSIENT THERMAL IMPEDANCE (CW)

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