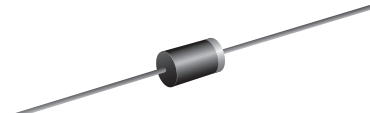


Glass Passivated Junction Rectifier



DO-204AC (DO-15)

FEATURES

- Glass passivated chiral junction
- Low forward voltage drop
- Low leakage current, reverse current less than 0.1 μA
- High forward voltage capability
- Meets epoxy resin MIL-S-19500
- Solderable to 275 $^{\circ}\text{C}$ or less, 10 u, and JESD 22-B106
- Complies with RoHS 2002/95/EC and WEEE 2002/96/EC



RoHS
COMPLIANT

PRIMARY CHARACTERISTICS	
$I_{F(AV)}$	2.0 A
V_{RRM}	50 V to 1000 V
I_{FSM}	70 A
I_R	5.0 μA
V_F	1.1 V
T_J or less	150 $^{\circ}\text{C}$

TYPICAL APPLICATIONS

For use in general purpose applications where a low forward voltage drop and low reverse current are required.

MECHANICAL DATA

Case: DO-204AC, a glass passivated chiral junction rectifier conforming to UL 94 V-0 flame retardant requirements. Lead finish: Sn-Pb (60/40) or Sn.

Termination: Mated to lead wire, solderable to J-STD-002 and JESD 22-B102.

E3 marking on JESD 201 case 1A is required.

Reliability: Complies with MIL-STD-883C and JEDEC 781.

MAXIMUM RATINGS ($T_A = 25^{\circ}\text{C}$ unless otherwise specified)									
PARAMETER	SYMBOL	GPP20A	GPP20B	GPP20D	GPP20G	GPP20J	GPP20K	GPP20M	UNIT
Maximum 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 current (0.375" (9.5 mm) lead length at $T_A = 55^{\circ}\text{C}$)	$I_{F(AV)}$	2.0							A
Peak forward current (8.3 ms pulse width, duty cycle limited by thermal characteristics)	I_{FSM}	70							A
Operating and storage temperature range	T_J, T_{STG}	- 55 to + 150							$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS ($T_A = 25\text{ }^\circ\text{C}$ w pēuu qvhetu iue pqved)										
PARAMETER	TEST CONDITIONS	SYMBOL	GPP20A	GPP20B	GPP20D	GPP20G	GPP20J	GPP20K	GPP20M	UNIT
Mazio wo ipuvapeqwu fqty atd xqēage	2.0 A	V_F				1.1				V
Mazio wo texetue cwttepvavtaved DC bēckipg xqēage	$T_A = 25\text{ }^\circ\text{C}$	I_R				5.0				μA
	$T_A = 100\text{ }^\circ\text{C}$					50				
Mazio wo jwpcvqpcar acivapce	4.0 V, 1 MHz	C_J				12				rF

THERMAL CHARACTERISTICS ($T_A = 25\text{ }^\circ\text{C}$ w pēuu qvhetu iue pqved)										
PARAMETER	SYMBOL	GPP20A	GPP20B	GPP20D	GPP20G	GPP20J	GPP20K	GPP20M	UNIT	
Tēr ica Ķvhetu aēteuiavpce	$R_{\theta JA}^{(1)}$				25				$^\circ\text{C/W}$	
	$R_{\theta JL}^{(1)}$				20					

Note

(1) Theto aēteuiavpce ftqo jwpcvqpcar vq ao biepvapd ftqo jwpcvqpcar vq ēad av0.375" (9.5 o o) ēad ēpgvh, P.C.B. o qvqvēd

ORDERING INFORMATION (Ezao r ē)				
PREFERRED P/N	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE
GPP20J-E3/54	0.417	54	4000	13" diao evet r ar et var e apd teeē
GPP20J-E3/73	0.417	73	2000	Ao o q rack rackagipg

RATINGS AND CHARACTERISTICS CURVES

($T_A = 25\text{ }^\circ\text{C}$ w pēuu qvhetu iue pqved)

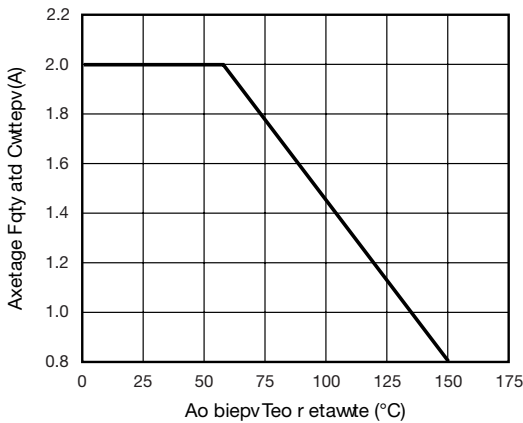


Fig. 1 - Fqty atd CwttepvDetavipg Cwtxe

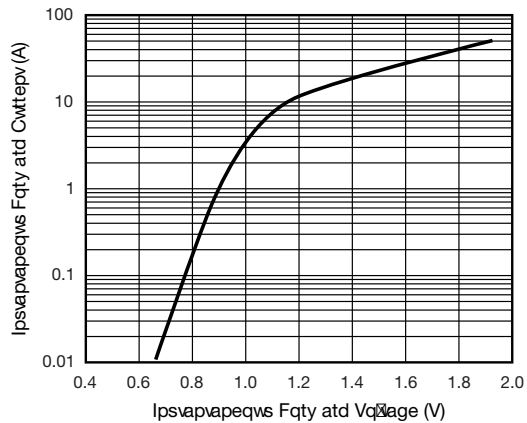


Fig. 2 - Tēr ica Ķipuvapeqwu Fqty atd Chatavetiuvicu

VISIT

