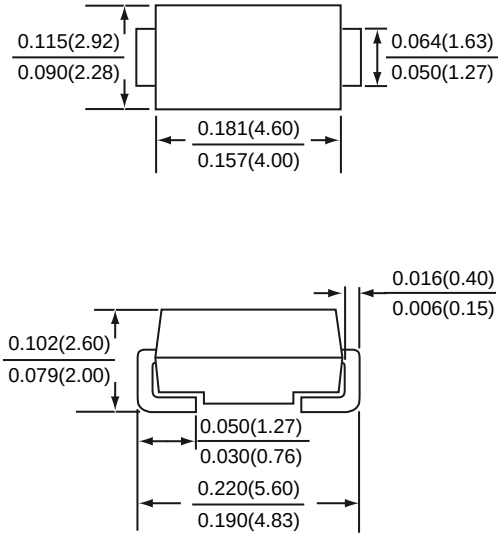
GF10A THRU GF10Y

SURFACE MOUNT GLASS PASSIVATED JUNCTION RECTIFIER

Reverse Voltage - 50 to 1600 Volts *Forward Current - 1.0 Ampere*

PATENTED

DO-214AC



*Dimensions in inches and (millimeters)

SUPEREX II™

FEATURES

* GPRC (Glass Passivated Rectifier Chip) inside
* Glass passivated cavity-free junction
* Ideal for surface mount automotive applications
* Built-in strain relief
* Easy pick an place
* High temperature soldering guaranteed: 260°C/10 seconds, at terminals
* Plastic package has Underwriters Laboratory Flammability Classification 94V-0

MECHANICAL DATA

Case : JEDEC DO-214AC molded plastic over passivated chip
Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
Polarity : Color band denotes cathode end
Mounting Position : Any
Weight : 0.002 ounes , 0.064 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.	*SYMBOLS*	*GF10*										*UNITS*
		A	***B***	***D***	***G***	***J***	***K***	***M***	***N***	***Q***	***Y***	
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	1100	1200	1600	Volts
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	770	840	1120	Volts
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	1100	1200	1600	Volts
Maximum average forward rectified current (SEE FIG.1)	$I_{(AV)}$	1.0										Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	30							25			Amps
Maximum instantaneous forward voltage at 1.0 A	V_F	1.0							1.25			Volts
Maximum DC reverse current at rated DC blocking voltage T_A=25°C T_A=125°C T_A=150°C	I_R	5 30 50							5 50 -			uA
Typical junction capacitance (NOTE 1)	C_J	12										pF
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$ $R_{\theta JL}$	75 27										°C / W
Operating junction and storage temperature range	T_J,T_{STG}	-65 to +175							-55 to +150			°C

NOTES : (1) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts
(2) Thermal resistance from junction to ambient and from junction to lead P.C.B. mounted on 0.2 x 0.2" (5.0 x 5.0mm) copper pad areas