

GF10DL THRU GF10ML

● **FEATURES**

- * Compliance to RoHS product
- * GPRC (glass passivated rectifier chip) inside
- * Glass passivated cavity-free junction
- * High surge current capability
- * Ideal for surface mount automotive applications
- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0

● **APPLICATION**

- * General purpose rectification of power supplies and inverters.
- * Surge absorption.

● **MECHANICAL DATA**

Case : DO-214AC molded plastic
Terminals : Tin Plated, solderable per MIL-STD-750, Method 2026.
Polarity : Color band denotes cathode end
Weight : 0.064 gram

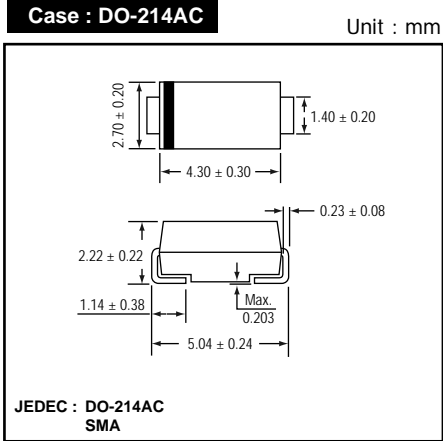
● **PACKING**

- 7" (178mm ± 2mm) reel :**
- * 1,800 pieces per reel
 - * 4 reels per box
 - * 6 boxes per carton
- 13" (330mm ± 2mm) reel :**
- * 7,500 pieces per reel
 - * 2 reels per box
 - * 5 boxes per carton

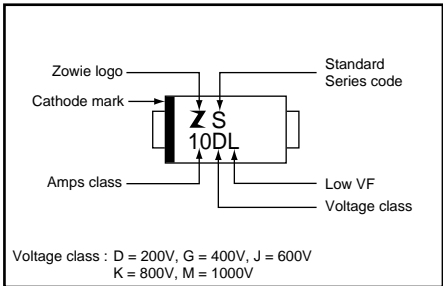
$V_F < 0.91V @ I_F = 1A$

$I_{FSM} = 50Amp$

● **OUTLINE DIMENSIONS**



● **MARKING**



Absolute Maximum Ratings (Ta = 25 °C)

ITEM	Symbol	Rating					Unit
		GF10DL	GF10GL	GF10JL	GF10KL	GF10ML	
Repetitive peak reverse voltage	VRRM	200	400	600	800	1000	V
Average forward current	IF(AV)	1.0					A
Peak forward surge current (8.3ms single half sine-wave)	IFSM	50		40			
Operating junction temperature Range	Tj	-65 to +175					°C
Storage temperature Range	TSTG	-65 to +175					

Electrical characteristics (Ta = 25 °C)

ITEM	Symbol	Conditions	Type	Min.	Typ.	Max.	Unit
Forward voltage	VF	IF = 1.0A	GF10DL	-	0.88	0.91	V
			GF10GL	-	0.89	0.92	
			GF10JL	-	0.89	0.92	
			GF10KL	-	0.89	0.92	
			GF10ML	-	0.89	0.92	
Repetitive peak reverse current	IRRM	VR = Max. VRRM , Ta = 25 °C		-	0.08	5	uA
Junction capacitance	Cj	VR = 4V, f = 1.0 MHz		-	12	-	pF
Thermal resistance	Rth(JA)	Junction to ambient *		-	56	-	°C/W
	Rth(JL)	Junction to lead *		-	14	-	

* Thermal resistance from junction to ambient and from junction to lead P.C.B. mounted on 0.2 x 0.2" (5.0mm x 5.0mm) copper pad areas.

FIG.1 - FORWARD CURRENT DERATING CURVE

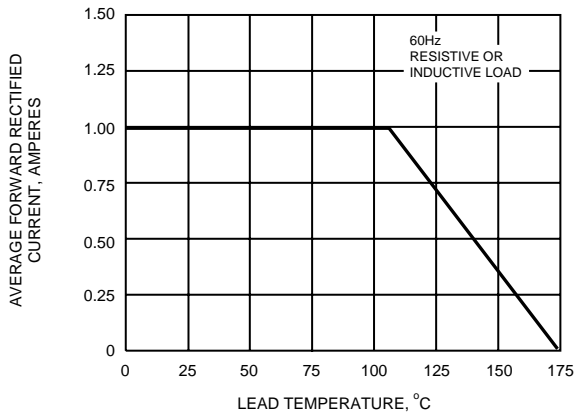


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

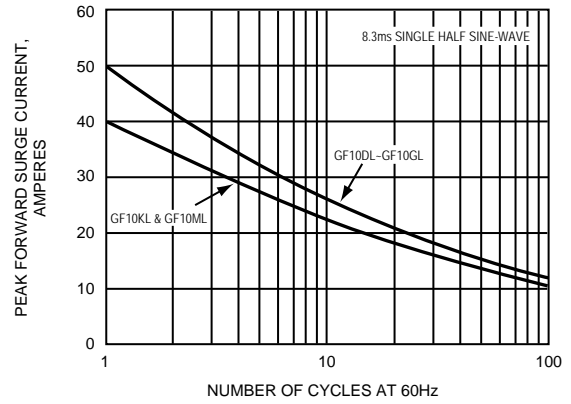


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

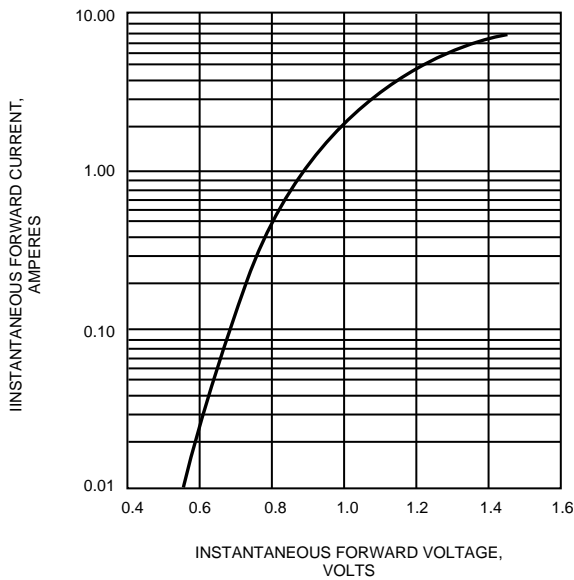


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

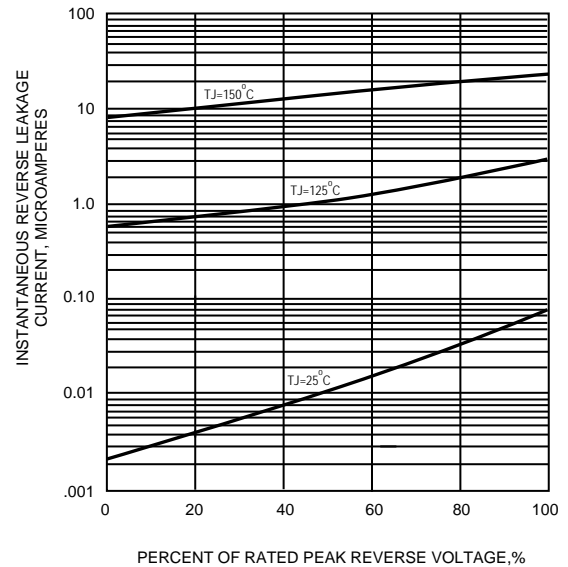


FIG.5 - TYPICAL JUNCTION CAPACITANCE

