

GF20DL THRU GF20ML
FEATURES

- * Compliance to RoHS product
- * GPRC (glass passivated rectifier chip) inside
- * Glass passivated cavity-free junction
- * 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-214AA molded plastic

Terminals : Tin Plated, solderable per MIL-STD-750, Method 2026.

Polarity : Color band denotes cathode end

Weight : 0.093 gram

PACKING

7" (178mm ± 2mm) reel :

- * 850 pieces per reel
- * 4 reels per box
- * 6 boxes per carton

13" (330mm ± 2mm) reel :

- * 3,000 pieces per reel
- * 2 reels per box
- * 5 boxes per carton

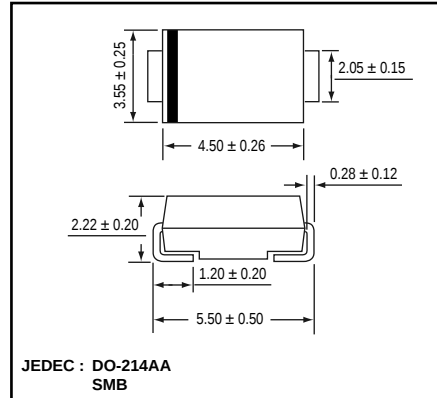
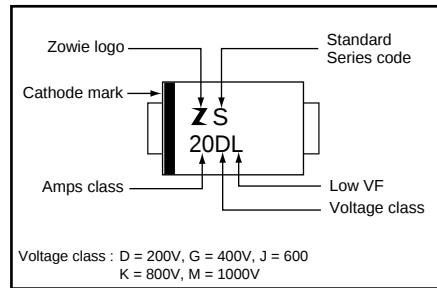
$$VF < 0.91V @ IF = 2A$$

$$IFSM = 100Amp$$

OUTLINE DIMENSIONS

Case : DO-214AA

Unit : mm

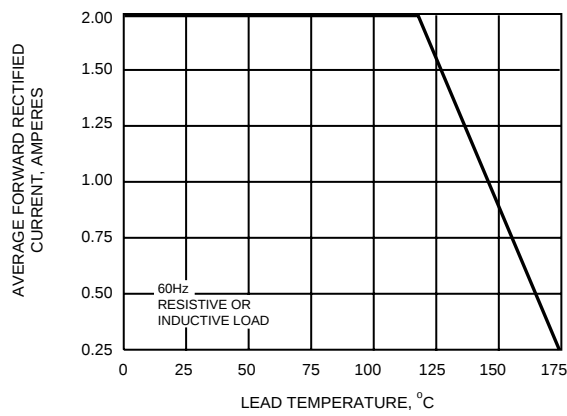
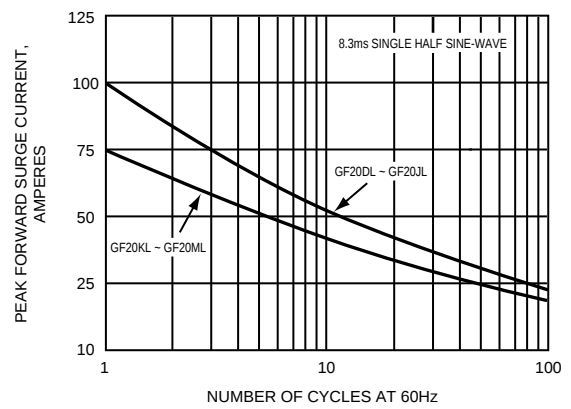
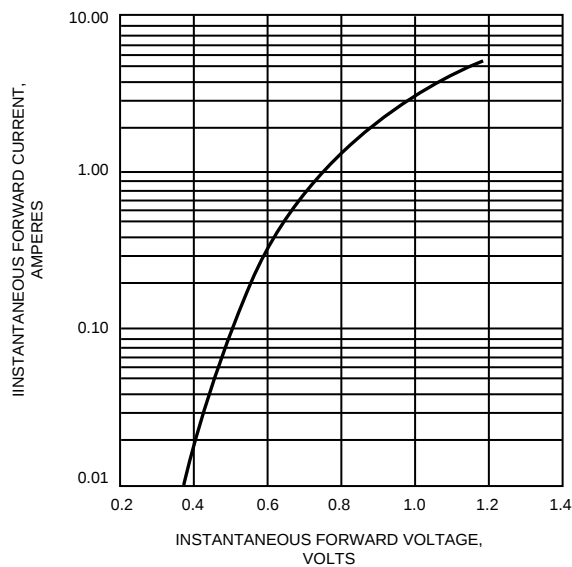
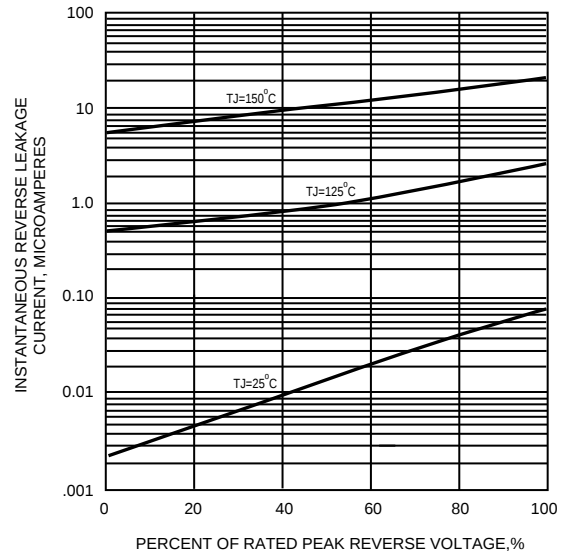

MARKING

Absolute Maximum Ratings (Ta = 25 °C)

ITEM	Symbol	Rating					Unit
		GF20DL	GF20GL	GF20JL	GF20KL	GF20ML	
Repetitive peak reverse voltage	VRRM	200	400	600	800	1000	V
Average forward current	IF(AV)	2.0					A
Peak forward surge current (8.3ms single half sine-wave)	IFSM	100			75		
Operating junction temperature Range	Tj	-65 to +175					°C
Storage temperature Range	TSTG	-65 to +175					

Electrical characteristics (Ta = 25 °C)

ITEM	Symbol	Conditions		Min.	Typ.	Max.	Unit
Forward voltage	V _F	I _F = 2.0	GF20DL GF20GL GF20JL	-	0.88	0.91	V
			GF20KL GF20ML	-	0.89	0.92	
Repetitive peak reverse current	I _{RRM}	V _R = Max. V _{RRM} , T _a = 25 °C		-	0.08	5	uA
Junction capacitance	C _j	V _R = 4V, f = 1.0 MHz		-	25	-	pF
Thermal resistance	R _{th} (J _A)	Junction to ambient *		-	53	-	°C/W
	R _{th} (J _L)	Junction to lead *		-	16	-	

* 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
