

G110DL THRU G110ML
Low VF Rectifier Diode
● FEATURES

- * Compliance to RoHS product
- * GPRC (Glass passivated rectifier chip) inside
- * Glass passivated cavity-free junction
- * Low forward voltage drop
- * High temperature soldering guaranteed: 260°C/10 seconds, 0.375" (9.5mm) lead length, 5lbs. (2.3 kg) tension
- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0

● APPLICATION

- * General purpose rectification
- * Surge absorption

● MECHANICAL DATA

Case : R-1 molded plastic

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

Polarity : Color band denotes cathode end

Weight : 0.181 gram

● PACKING

Bulk :

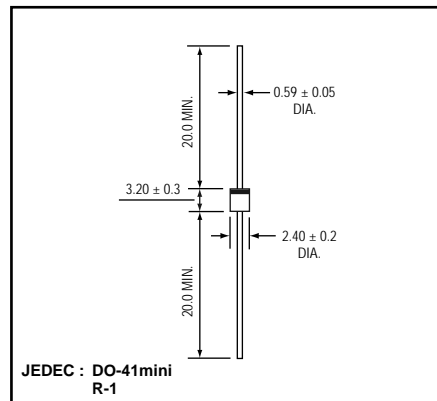
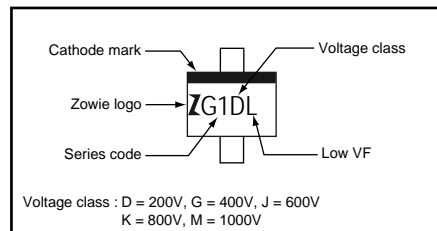
- * 1,000 pieces box
- * 50 boxes per (465x215x265mm) carton

Reel :

- * 5,000 pieces per reel
- * 4 reels per (340x340x330mm) carton

VF < 0.90V @IF = 1A
IFSM = 30Amp
● OUTLINE DIMENSIONS
Case : R-1

Unit : mm


● MARKING

Absolute Maximum Ratings (Ta = 25 °C)

ITEM	Symbol	Ratings					Unit
		G110DL	G110GL	G110JL	G110KL	G110ML	
Repetitive peak reverse voltage	VRRM	200	400	600	800	1000	V
Average forward current	IF(AV)	1.0					A
Peak forward surge current *	IFSM	30					
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	G110DL	-	0.87	0.90	V
			G110GL				
			G110JL	-	0.90	0.92	
			G110KL				
			G110ML				
Repetitive peak reverse current	IRRM	VR = Max. VRRM, Ta = 25 °C		-	0.08	5	uA
Junction capacitance	Cj	VR = 4V, f = 1.0 MHz		-	15	-	pF
Thermal resistance	Rth(JA)	Junction to ambient		-	50	-	°C/W
	Rth(JL)	Junction to lead		-	20	-	

* 8.3ms single half sine-wave

FIG.1 - FORWARD CURRENT DERATING CURVE

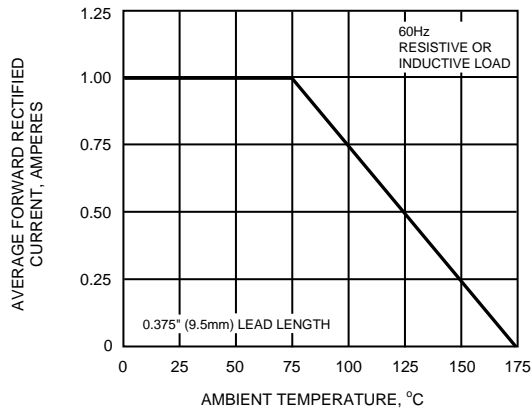


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

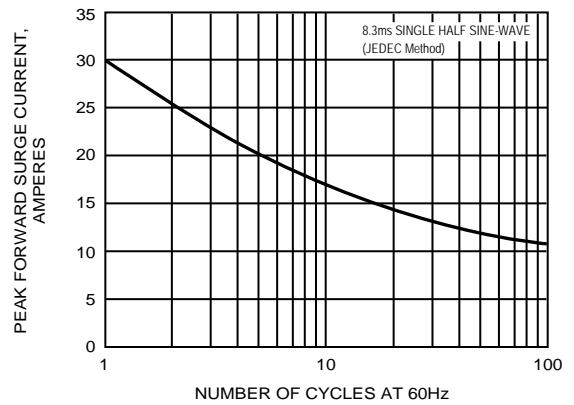


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

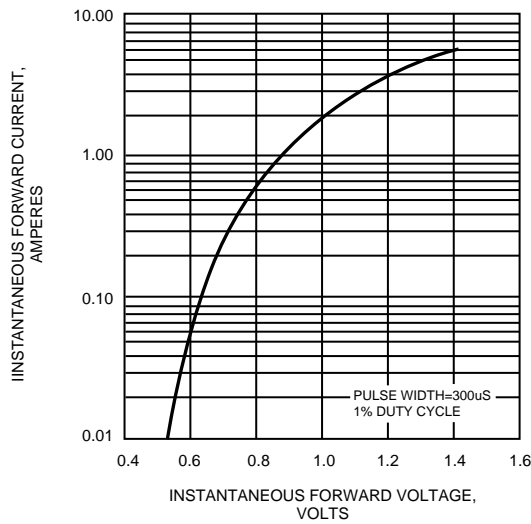


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

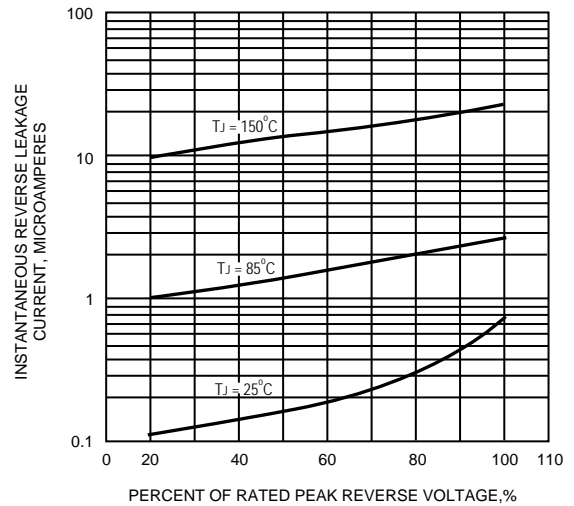


FIG.5 - TYPICAL JUNCTION CAPACITANCE

