

ZENER DIODES

$V_z : 3.6 -- 91 V$

POWER DISSIPATION: 800 mW

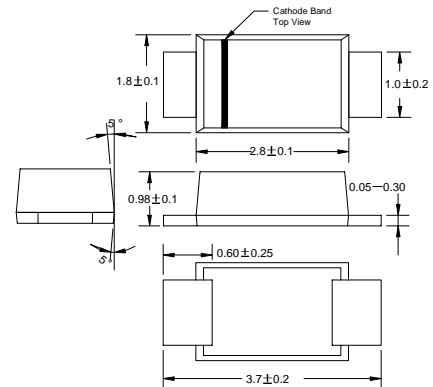
FEATURES

- Silicon planar power zener diodes.
- Low leakage current
- Low profile surface mount package.
- High temperature soldering:
260 °C /10 sec.at terminals.

MECHANICAL DATA

- Case: JEDEC SOD-123FL, molded plastic
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: Color band denotes cathodes end
- Weight: 0.006 ounces, 0.02 grams
- Mounting position: any

SOD-123FL



Maximum Ratings and Thermal Characteristics (T_A=25 unless otherwise noted)

Parameter	Symbol	Value	Unit
Power dissipation at T _A =25 (Note 1)	P _{tot}	800	mW
Forward voltage @ I _F =200mA	V _F	1.2	V
Maximum thermal resistance junction to ambient	R _{θJA}	180	K/W
Junction temperature	T _J	-55 to +150	
Storage temperature range	T _{STG}	-55 to +150	

¹⁾ Mounted on epoxy glass PCB with 3x3mm, Cu pads(40μm thick)

ELECTRICAL CHARACTERISTICS

Type	Device Marking Code	Zener Voltage Range ⁽¹⁾		Test Current	Differential Resistance		Temperature Coefficient		Maximum Reverse Leakage Current	
		$V_Z@I_{ZT}$		I_{ZT}	$r_{diff}@I_{ZT}$		$\alpha V_Z@I_Z$		I_R	V_R
		V		m A	Ω		%/		μA	V
		Min	Max		Typ	Max	Min	Max	Max	
GZF3V6C	W5	3.4	3.8	100	4.0	8.0	-0.14	-0.04	100	1.0
GZF3V9C	W6	3.7	4.1	100	4.0	8.0	-0.14	-0.04	50	1.0
GZF4V3C	W7	4.0	4.6	100	4.0	7.0	-0.12	-0.02	25	1.0
GZF4V7C	W8	4.4	5.0	100	3.0	7.0	-0.1	0	10	1.0
GZF5V1C	W9	4.8	5.4	100	3.0	6.0	-0.08	0.2	5.0	1.0
GZF5V6C	WA	5.2	6.0	100	2.0	4.0	-0.04	0.04	10	2.0
GZF6V2C	WB	5.8	6.6	100	2.0	3.0	-0.01	0.06	5.0	2.0
GZF6V8C	WC	6.4	7.2	100	1.0	3.0	0	0.07	10	3.0
GZF7V5C	WD	7.0	7.9	100	1.0	2.0	0	0.07	50	3.0
GZF8V2C	WE	7.7	8.7	100	1.0	2.0	0.03	0.08	10	3.0
GZF9V1C	WF	8.5	9.6	50	2.0	4.0	0.03	0.08	10	5.0
GZF10C	WG	9.4	10.6	50	2.0	4.0	0.05	0.09	7.0	7.5
GZF11C	WH	10.4	11.6	50	4.0	7.0	0.05	0.1	4.0	8.2
GZF12C	WI	11.4	12.7	50	4.0	7.0	0.05	0.1	3.0	9
GZF13C	WK	12.4	14.1	50	5.0	10	0.05	0.1	2.0	10
GZF15C	WL	13.8	15.6	50	5.0	10	0.05	0.1	1.0	11
GZF16C	WM	15.3	17.1	25	6.0	15	0.06	0.11	1.0	12
GZF18C	WN	16.8	19.1	25	6.0	15	0.06	0.11	1.0	13
GZF20C	WO	18.8	21.2	25	6.0	15	0.06	0.11	1.0	15
GZF22C	WP	20.8	23.3	25	6.0	15	0.06	0.11	1.0	16
GZF24C	WR	22.8	25.6	25	7.0	15	0.06	0.11	1.0	18
GZF27C	WS	25.1	28.9	25	7.0	15	0.06	0.11	1.0	20
GZF30C	WT	28	32	25	8.0	15	0.06	0.11	1.0	22
GZF33C	WU	31	35	25	8.0	15	0.06	0.11	1.0	24
GZF36C	WW	34	38	10	21	40	0.06	0.11	1.0	27
GZF39C	WX	37	41	10	21	40	0.06	0.11	1.0	30
GZF43C	WY	40	46	10	24	45	0.07	0.12	1.0	33
GZF47C	WZ	44	50	10	24	45	0.07	0.12	1.0	36
GZF51C	X1	48	54	10	25	60	0.07	0.12	1.0	39
GZF56C	X2	52	60	10	25	60	0.07	0.12	1.0	43
GZF62C	X3	58	66	10	25	80	0.08	0.13	1.0	47
GZF68C	X4	64	72	10	25	80	0.08	0.13	1.0	51
GZF75C	X5	70	79	10	30	100	0.08	0.13	1.0	56
GZF82C	X6	77	87	10	30	100	0.08	0.13	1.0	62
GZF91C	X7	85	96	5.0	60	200	0.09	0.13	1.0	68

1)Pulse test:tp 5ms

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FIG.1 – TYPICAL FORWARD CHARACTERISTIC

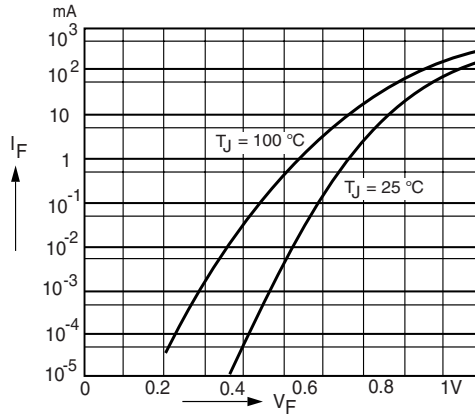


FIG.2 – ADMISSIBLE POWER DISSIPATION VERSUS AMBIENT TEMPERATURE

