/ Descriptions

VOG0456IL

Glass Passivated Junction Zener voltage regulator diodes,SOD-123FL thin package.

/ Features

6l6Y 663Y DHF0T434

3.3V to 330V wide zener voltage range applications, Small plastic package suitable for surface mounted design, Qualified to AEC-Q101 Standards for High Reliability, HF Product.

/ Applications

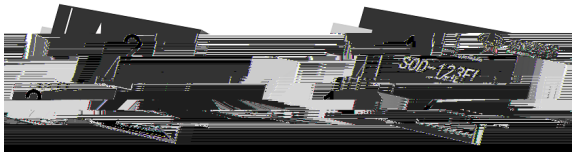
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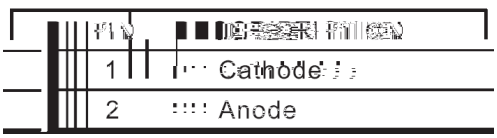
1W power dissipation,automated assembly processes, Meet the stringent requirements of automotive applications.

/ Equivalent Circuit

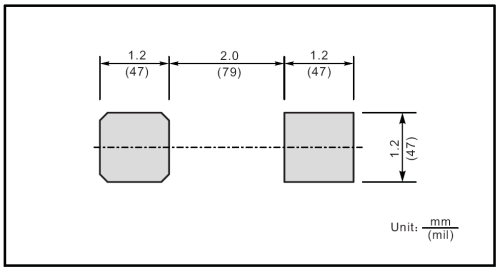


/ Pinning





The recommended mounting pad size



/ Marking

See Marking Instructions.

/ Electrical Characteristics(Ta=25)

Type	Marking	Zener Voltage Range [1]				Dynamic Impedance	Reverse Current		Admissible Zener Current
		V_{ZT} at I_{ZT}			I_{ZT}	Z_{ZT} at I_{ZT}	I_R	at V_R	
		Min (V)	Nom (V)	Max(V)	mA	Max (Ω)	Max μA	V	I_{ZM} (mA)

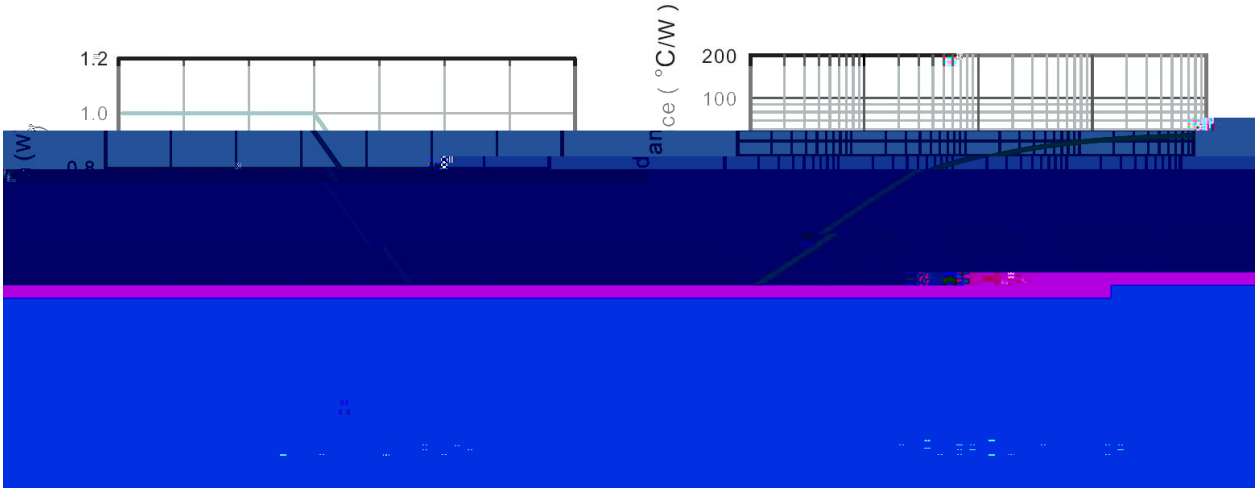
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		V_{ZT} at I_{ZT}			I_{ZT}	Z_{ZT} at I_{ZT}	I_R	at V_R	
		Min (V)	Nom (V)	Max(V)	mA	Max (Ω)	Max μ A	V	I_{ZM} (mA)
BRMM1W150Q	FLZQ	140	150	157	1.7	900	1	110	6.3
BRMM1W165Q	FPAQ	155	165	172	1.6	1100	1	120	5.8
BRMM1W180Q	FPFQ	170	180	191	1.4	1200	1	135	5.2
BRMM1W200Q	FPGQ	189	200	211	1.2	1400	1	150	4.7
BRMM1W220Q	FPKQ	209	220	231	1.0	1600	1	165	4.3
BRMM1W240Q	FPLQ	229	240	251	1.0	1800	1	180	3.9
BRMM1W260Q	FPMQ	249	260	271	1.0	2000	1	190	3.7
BRMM1W280Q	FPNQ	269	280	291	1.0	2100	1	205	3.4
BRMM1W300Q	FPQQ	289	300	315	1.0	2300	1	230	3.1
BRMM1W330Q	FPRQ	313	330	346	1.0	2500	1	250	2.8

Note:

1 V_{ZT} is tested with pulses (20 ms)

/ Electrical Characteristic Curve

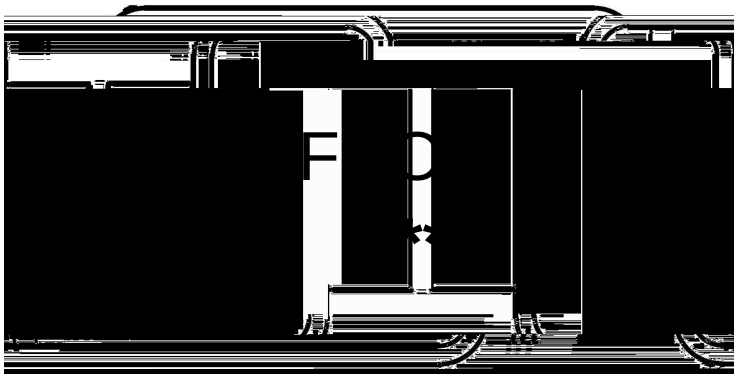


BRMM1W3V3Q~BRMM1W330Q

Rev.A Aug.-2024

DATA SHEET

/ Marking Instructions



IHO

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Note:

IHO	Product Type Code
Q:	Automobile halogen-free product Code
****	Lot No. Code, code change with Lot No

( ) / Temperature Profile for IR Reflow Soldering(Pb-Free)

Note:

1		150	200		60	120sec;	1.Preheating:150~200 , Time:60~120sec.
2		255±5				5±0.5sec;	2.Peak Temp.:255±5 , Duration:5±0.5sec.
3				2	10	/sec.	3. Cooling Speed: 2~10 /sec.

/ Resistance to Soldering Heat Test Conditions

260±5	10±1 sec.	Temp.:260±5	Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type	Units	Dimension	(unit mm³)