

Features

- V_Z-Tolerance+/-5%
- Glass Passivated Junction
- Excellent Clamping Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant (Note1)("P" Suffix Designates Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C

Parameter	Symbol	Rating	Conditions
Power Dissipation	P _D	1.0W	T _L =75°C
Maximum Forward Voltage	V _F	1.2V	I _F =200mA

Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7a







Electrical Characteristics @ 25°C Unless Otherwise Specified

MCC	ZENER V @TEST CL	OLTAGE JRRENT ⁽²⁾	MAXIMU	JM ZENER IM	PEDANCE	LEAKAG	E CURRENT	I _{ZM}	MARKING
PARTNUMBER	Vz	I _{ZT}	Z _{ZT}	Z _{ZK}	Ι _{zκ}	I _R	V _R		CODE
	V	mA	Ohms	Ohms	mA	μA	V	mA	
1EZ5.6D5	5.6	44.6	5.0	600	1	10	2.0	162	1EZ5.6D5
1EZ6.2D5	6.2	40.3	2.0	700	1	10	3.0	146	1EZ6.2D5
1EZ6.8D5	6.8	36.8	3.5	700	1	10	4.0	133	1EZ6.8D5
1EZ7.5D5	7.5	33.3	4.0	700	0.5	10	5.0	121	1EZ7.5D5
1EZ8.2D5	8.2	30.5	4.5	700	0.5	10	6.0	110	1EZ8.2D5
1EZ9.1D5	9.1	27.5	5.0	700	0.5	10	7.0	100	1EZ9.1D5
1EZ10D5	10	25	7.0	700	0.25	10	7.6	91	1EZ10D5
1EZ11D5	11	22.7	8.0	700	0.25	5	8.4	83	1EZ11D5
1EZ12D5	12	20.8	9.0	700	0.25	5	9.1	76	1EZ12D5
1EZ13D5	13	19.2	10	700	0.25	5	9.9	69	1EZ13D5
1EZ14D5	14	17.9	12	700	0.25	5	10.6	65	1EZ14D5
1EZ15D5	15	16.7	14	700	0.25	5	11.4	61	1EZ15D5
1EZ16D5	16	15.6	16	700	0.25	5	12.2	57	1EZ16D5
1EZ17D5	17	14.7	18	750	0.25	5	13.0	53	1EZ17D5
1EZ18D5	18	13.9	20	750	0.25	5	13.7	50	1EZ18D5
1EZ19D5	19	13.2	21	750	0.25	5	14.4	47	1EZ19D5
1EZ20D5	20	12.5	22	750	0.25	5	15.2	45	1EZ20D5
1EZ22D5	22	11.4	23	750	0.25	5	16.7	41	1EZ22D5
1EZ24D5	24	10.4	25	750	0.25	5	18.2	38	1EZ24D5
1EZ27D5	27	9.3	35	750	0.25	5	20.6	34	1EZ27D5
1EZ30D5	30	8.3	40	1000	0.25	5	22.5	30	1EZ30D5
1EZ33D5	33	7.6	45	1000	0.25	5	25.1	27	1EZ33D5
1EZ36D5	36	6.9	50	1000	0.25	5	27.4	25	1EZ36D5
1EZ39D5	39	6.4	60	1000	0.25	5	29.7	23	1EZ39D5

Note: 2. Based on DC-measurement at thermal equilibrium while maintaining the lead temperature(T_L) at 25°C,9.5mm (3/8") from the diode body.



Curve Characteristics







Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel: 5Kpcs/Reel
(Part Number)-AP	Ammo Packing: 5Kpcs/Ammo Box
(Part Number)-BP	Bulk:1Kpcs/Box,50Kpcs/Carton

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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Mechanical Data

- Weight: 1.141 grams (Approximate)
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant (^{Note1}) ("P" Suffix Designates RoHS Compliant. See Ordering Information)



Package 3D Photo

Note: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7a.

Package Outline Dimensions



DIMENSIONS					
	INC	INCHES MM		NOTE	
	MIN	MAX	MIN	MAX	NOTE
Α	0.287	0.374	7.30	9.50	
В	0.189	0.208	4.80	5.30	
С	0.048	0.052	1.20	1.30	
D	1.000		25.40		



Packing Quantity

Package	Package Type	Minimum Packing Quantity	Carton Quantity
	13" Tape and Reel	1200	4800
DO-201AD	Bulk	500	12000
	52mm Ammo Pack	1200	12000

Note 1: These are minimum package quantities only. Minimum orders will differ. Contact the factory for more information on minimum order quantities.

Reel Dimensions



Description	Dimension	Specification(mm)
Reel Diameter	A	330
Core Diameter (Outside Dimension)	В	16.6±0.4
Arbor Hole Diameter	С	85.7±0.3
Reel Width	D	79.0±1.0



Reel Taping Specifications



Description	Dimension	Specification(mm)	
Component Pitch	A	10.0±0.5	
Inside Tape Spacing	В	52.4±1.5	
Lead To Lead Eccentricity	[C ₁ - C ₂]	1.0 Max.	
Lead Extension	D	0.5 Max.	
Lead Bending	E	1.2 Max.	
Cumulative Pitch	G	1.5 per 10 pitch	
Exposed Adhesive	Н	0.8 Max.	
Tape Width	J	6.0±0.4	
Tape Leader	Beginning and end of reel or ammo pack	300.0 Min.	
Empty Spaces	Consecutive missing components not allowed	<0.1%	
Polarity Marking	All polarized components shall be oriented in the same direction. The cathode tape shall be colored and the anode tape shall be white or light beige.		



Description	Dimension	Specification(mm typical)
Length	L	360
Width	W	350
Height	Н	345

Carton Size



Bulk Packing Specification

Inbox Size



Description	Dimension	Specification(mm typical)
Length	L	305
Width	W	75
Height	Н	40



Description	Dimension	Specification(mm typical)
Length	L	310
Width	W	305
Height	Н	260



Ammo Pack Dimensions



Description	Dimension	Specification(mm typical)
Length	L	260
Width	W	70
Height	Н	135



DescriptionDimensionSpecification(mm typical)LengthL410WidthW265HeightH315



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