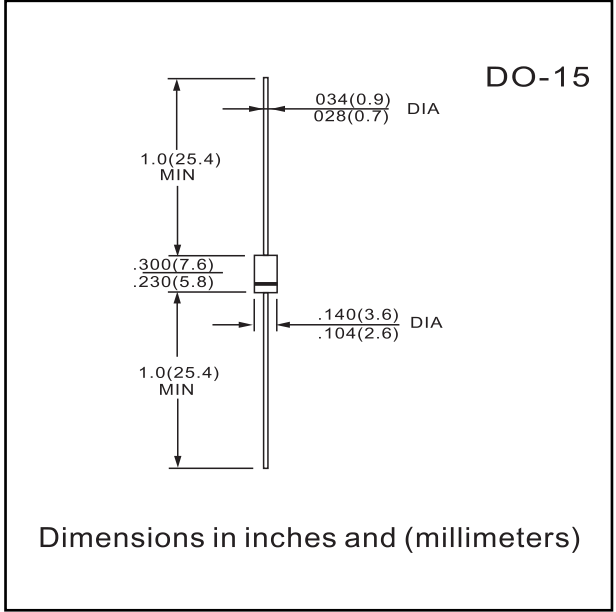




- FEATURES**
- Low profile package
 - Built-in strain relief
 - Glass passivated junction
 - Low inductance
 - Typical I_D less than 1.0 μ A above 11V
 - Plastic package has Underwriters Laboratory Flammability Classification 94V-O
 - High temperature soldering : 260°C /10 seconds at terminals
 - Pb free product are available : 99% Sn above can meet RoHS environment substance directive request



Mechanical Data

Case: JEDEC DO-15, Molded plastic over passivated junction
 Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
 Polarity: Color band denotes positive end (cathode)
 Standard packing: 52mm tape
 Weight: 0.015 ounce, 0.04 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	Value	Units
Peak Pulse Power Dissipation on $T_A=50^\circ\text{C}$ (Notes A) Derate above 70°C	P_D	3.0 24.0	Watts mW / $^\circ\text{C}$
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	15	Amps
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to + 150	$^\circ\text{C}$

NOTES:
 A. Mounted on 5.0mm² (.013mm thick) land areas.
 B. Measured on 8.3ms, and single half sine-wave or equivalent square wave, duty cycle=4 pulses per minute maximum



TAYCHIPST

Glass Passivated Junction Rectifier

3EZ11 THRU 3EZ200

11V-200V 3.0A

Part Number	Vz @ IzT	IzT	Maximum Zener Impedance			Leakage Current		Maximum Zener Current IzM	Surge Current @ Ta=25°C	PACKAGE
	V	mA	ZzT @ IzT	Zzk @ Izk	Izk	IR	VR			
			Ohms	Ohms	mA	uA Max	V	mA	ir-mA	
3.0 Watt ZENER										
3EZ11	11	68	4.0	700	0.25	1.0	8.4	225	1.82	DO-15
3EZ12	12	63	4.5	700	0.25	1.0	9.1	246	1.66	DO-15
3EZ13	13	58	4.5	700	0.25	0.5	9.9	208	1.54	DO-15
3EZ14	14	53	5.0	700	0.25	0.5	10.6	193	1.43	DO-15
3EZ15	15	50	5.5	700	0.25	0.5	11.4	180	1.33	DO-15
3EZ16	16	47	5.5	700	0.25	0.5	12.2	169	1.25	DO-15
3EZ17	17	44	6.0	750	0.25	0.5	13.0	150	1.18	DO-15
3EZ18	18	42	6.0	750	0.25	0.5	13.7	159	1.11	DO-15
3EZ19	19	40	7.0	750	0.25	0.5	14.4	142	1.05	DO-15
3EZ20	20	37	7.0	750	0.25	0.5	15.2	135	1.00	DO-15
3EZ22	22	34	8.0	750	0.25	0.5	16.7	123	0.91	DO-15
3EZ24	24	31	9.0	750	0.25	0.5	18.2	112	0.83	DO-15
3EZ27	27	28	10	750	0.25	0.5	20.6	100	0.74	DO-15
3EZ28	28	27	12	750	0.25	0.5	21.0	96	0.71	DO-15
3EZ30	30	25	16	1000	0.25	0.5	22.5	90	0.67	DO-15
3EZ33	33	23	20	1000	0.25	0.5	25.1	82	0.61	DO-15
3EZ36	36	21	22	1000	0.25	0.5	27.4	75	0.56	DO-15
3EZ39	39	19	28	1000	0.25	0.5	29.7	69	0.51	DO-15
3EZ43	43	17	33	1500	0.25	0.5	32.7	63	0.45	DO-15
3EZ47	47	16	38	1500	0.25	0.5	35.8	57	0.42	DO-15
3EZ51	51	15	45	1500	0.25	0.5	38.8	53	0.39	DO-15
3EZ56	56	13	50	2000	0.25	0.5	42.6	48	0.36	DO-15
3EZ62	62	12	55	2000	0.25	0.5	47.1	44	0.32	DO-15
3EZ68	68	11	70	2000	0.25	0.5	51.7	40	0.29	DO-15
3EZ75	75	10	85	2000	0.25	0.5	56.0	36	0.27	DO-15
3EZ82	82	9.1	95	3000	0.25	0.5	62.2	33	0.24	DO-15
3EZ91	91	8.2	115	3000	0.25	0.5	69.2	30	0.22	DO-15
3EZ100	100	7.5	160	3000	0.25	0.5	76.0	27	0.20	DO-15
3EZ110	110	6.8	225	4000	0.25	0.5	83.6	25	0.18	DO-15
3EZ120	120	6.3	300	4500	0.25	0.5	91.2	22	0.16	DO-15
3EZ130	130	5.8	375	5000	0.25	0.5	98.8	21	0.15	DO-15
3EZ140	140	5.3	475	5500	0.25	0.5	106.4	19	0.14	DO-15
3EZ150	150	5.0	550	6000	0.25	0.5	114	18	0.13	DO-15
3EZ160	160	4.7	625	6500	0.25	0.5	121.6	17	0.12	DO-15
3EZ170	170	4.4	650	7000	0.25	0.5	130.4	16	0.12	DO-15
3EZ180	180	4.2	700	7000	0.25	0.5	136.8	15	0.11	DO-15
3EZ190	190	4.0	800	8000	0.25	0.5	144.8	14	0.10	DO-15
3EZ200	200	3.7	875	8000	0.25	0.5	152.0	13	0.10	DO-15

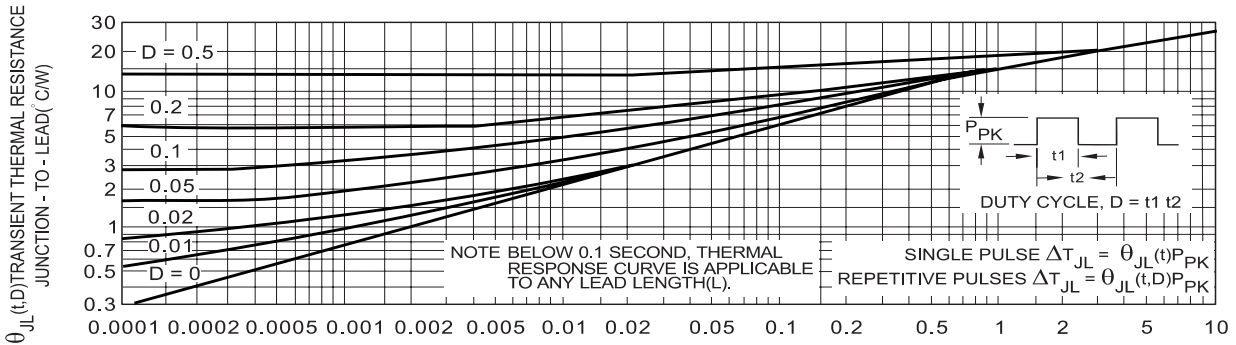


FIGURE 2. TYPICAL THERMAL RESPONSE L,

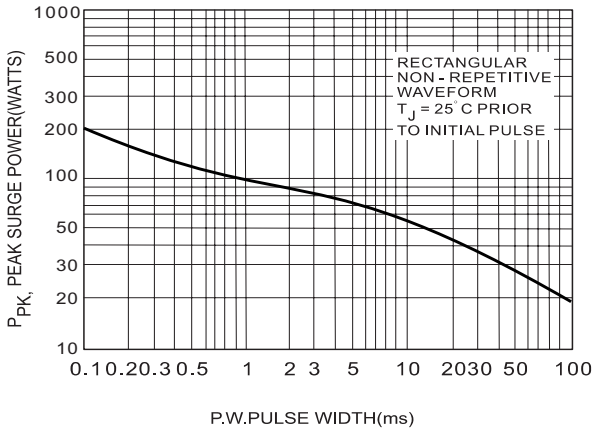


FIGURE 3. MAXIMUM SURGE POWER

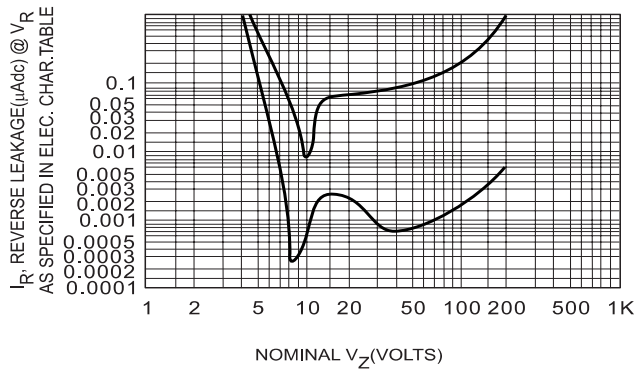


FIGURE 4. TYPICAL REVERSE LEAKAGE

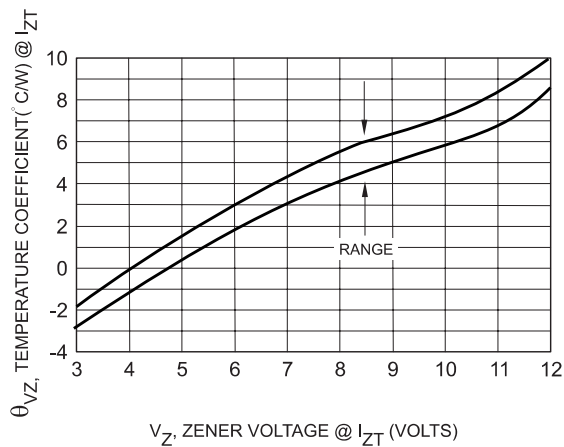


FIGURE 5. UNITS TO 12 VOLTS

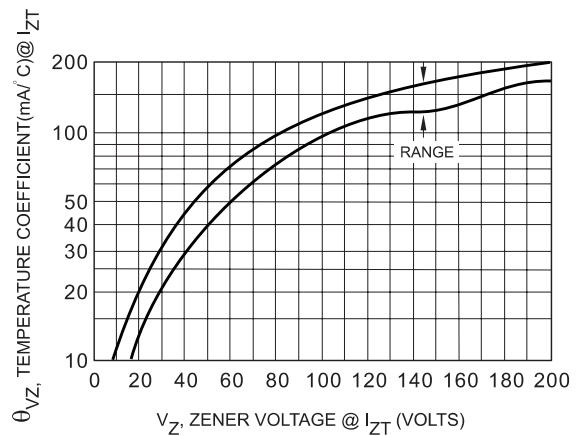


FIGURE 6. UNIT 10 TO 200 VOLTS