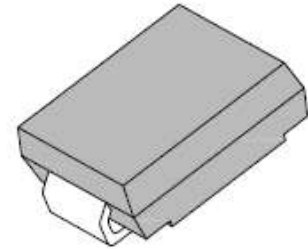


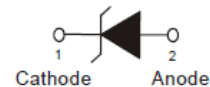
5W Surface Mount Zener Diodes

Features

- For surface mounted applications in order to optimize board space
- Low profile package
- Built-in strain relief
- Glass passivated junction
- Low inductance
- Complete voltage range 3.6 to 51V
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O.
- Low leakage current
- RoHS compliant



SMC
(DO-214AB)



Mechanical Data

Case:	JEDEC SMC (DO-214AB), molded plastic over passivated junction
Epoxy:	Plastic package has UL flammability classification 94V-0
Terminals:	Solder plated, solderable per MIL-STD-750, Method 2026
Polarity:	Color band denotes cathode end
Weight:	0.0082 ounce, 0.2325 gram

Maximum Ratings ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	Value	Unit	Condition
P_D	DC Power Dissipation on TL=75°C, Measure at Zero Lead Length Derate above 75°C	5.0	W	
T_J,T_{STG}	Operating Junction and Storage Temperature Range	-55 to +150	°C	

5W Surface Mount Zener Diodes

Z5SMC5334B - Z5SMC5369B

Electrical Characteristics ($T_{Ambient}=25^{\circ}\text{C}$ unless noted otherwise)

Part NO.	Marking Code	Nominal Zener Voltage @ IZT				Max. Zener Impedance (Ω)			Max. Reverse Leakage Current IR @ VR	
		Vz(V)			IZT(mA)	ZzT @ IZT	ZzK @ Izk	Izk(mA)	IR(μ A)	VR(V)
		Nom.	Min.	Max.						
Z5SMC5334B	334B	3.6	3.42	3.78	350	3	500	1.0	150.0	1.0
Z5SMC5335B	335B	3.9	3.71	4.10	320	2	500	1.0	50.0	1.0
Z5SMC5336B	336B	4.3	4.09	4.52	290	2	500	1.0	10.0	1.0
Z5SMC5337B	337B	4.7	4.47	4.94	260	2	450	1.0	10.0	1.0
Z5SMC5338B	338B	5.1	4.85	5.36	240	2	400	1.0	10.0	1.0
Z5SMC5339B	339B	5.6	5.32	5.88	220	1	400	1.0	10.0	2.0
Z5SMC5340B	340B	6.0	5.70	6.30	200	1	300	1.0	10.0	3.0
Z5SMC5342B	342B	6.8	6.46	7.14	175	1	200	1.0	10.0	5.2
Z5SMC5343B	343B	7.5	7.13	7.88	175	2	200	1.0	10.0	5.7
Z5SMC5344B	344B	8.2	7.79	8.61	150	2	200	1.0	10.0	6.2
Z5SMC5345B	345B	8.7	8.27	9.14	150	2	200	1.0	10.0	6.6
Z5SMC5346B	346B	9.1	8.65	9.56	150	2	150	1.0	7.5	6.9
Z5SMC5347B	347B	10	9.50	10.50	125	2	125	1.0	5.0	7.6
Z5SMC5348B	348B	11	10.45	11.55	125	3	125	1.0	5.0	8.4
Z5SMC5349B	349B	12	11.40	12.60	100	3	125	1.0	2.0	9.1
Z5SMC5350B	350B	13	12.35	13.65	100	3	100	1.0	1.0	9.9
Z5SMC5351B	351B	14	13.30	14.70	100	3	75	1.0	1.0	10.6
Z5SMC5352B	352B	15	14.25	15.75	75	3	75	1.0	1.0	11.5
Z5SMC5353B	353B	16	15.20	16.80	75	3	75	1.0	1.0	12.2
Z5SMC5354B	354B	17	16.15	17.85	70	3	75	1.0	0.5	12.9
Z5SMC5355B	355B	18	17.10	18.90	65	3	75	1.0	0.5	13.7
Z5SMC5356B	356B	19	18.05	19.95	65	3	75	1.0	0.5	14.4
Z5SMC5357B	357B	20	19.00	21.00	65	3	75	1.0	0.5	15.2
Z5SMC5358B	358B	22	20.90	23.10	50	4	75	1.0	0.5	16.7
Z5SMC5359B	359B	24	22.80	25.20	50	4	100	1.0	0.5	18.2
Z5SMC5360B	360B	25	23.75	26.25	50	4	110	1.0	0.5	19.0
Z5SMC5361B	361B	27	25.65	28.35	50	5	120	1.0	0.5	20.6
Z5SMC5362B	362B	28	26.60	29.40	50	6	130	1.0	0.5	21.2

5W Surface Mount Zener Diodes

Z5SMC5334B - Z5SMC5369B

Part NO.	Marking Code	Nominal Zener Voltage @ IZT				IZT(mA)	Max. Zener Impedance (Ω)			Max. Reverse Leakage Current IR @ VR	
		Vz(V)			ZzT @ IZT		Zzk @ Izk	Izk(mA)	IR(μ A)	VR(V)	
		Nom.	Min.	Max.							
Z5SMC5363B	363B	30	28.50	31.50	40	8	140	1.0	0.5	22.8	
Z5SMC5364B	364B	33	31.35	34.65	40	10	150	1.0	0.5	25.1	
Z5SMC5365B	365B	36	34.20	37.80	30	11	160	1.0	0.5	27.4	
Z5SMC5366B	366B	39	37.05	40.95	30	14	170	1.0	0.5	29.7	
Z5SMC5367B	367B	43	40.85	45.15	30	20	190	1.0	0.5	32.7	
Z5SMC5368B	368B	47	44.65	49.35	25	25	210	1.0	0.5	35.8	
Z5SMC5369B	369B	51	48.45	53.55	25	27	230	1.0	0.5	38.8	

Note: Suffix "B" indicates $\pm 5\%$ tolerance.

Typical Characteristics Curves

Fig.1- Power Temperature Derating Curve

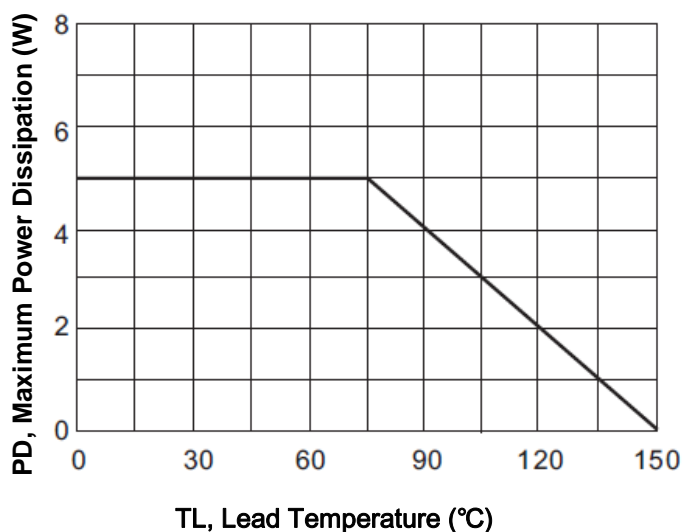
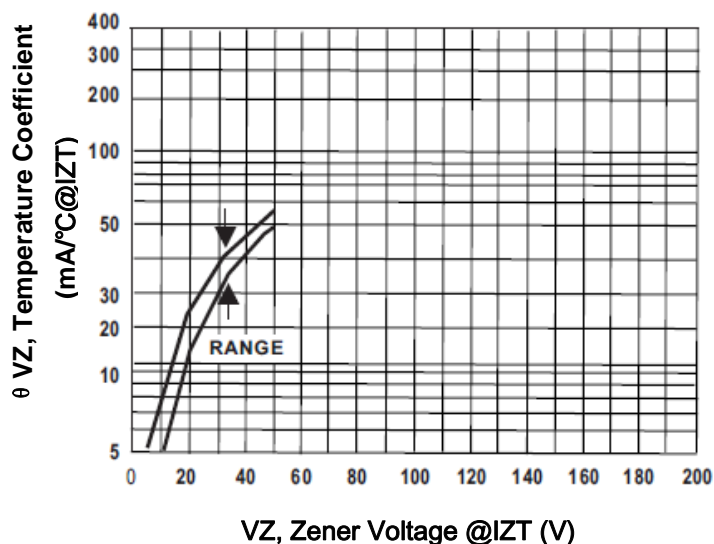


Fig. 2- Temperature Coefficient Range



5W Surface Mount Zener Diodes

Z5SMC5334B - Z5SMC5369B

Fig.3- Typical Thermal Resistance

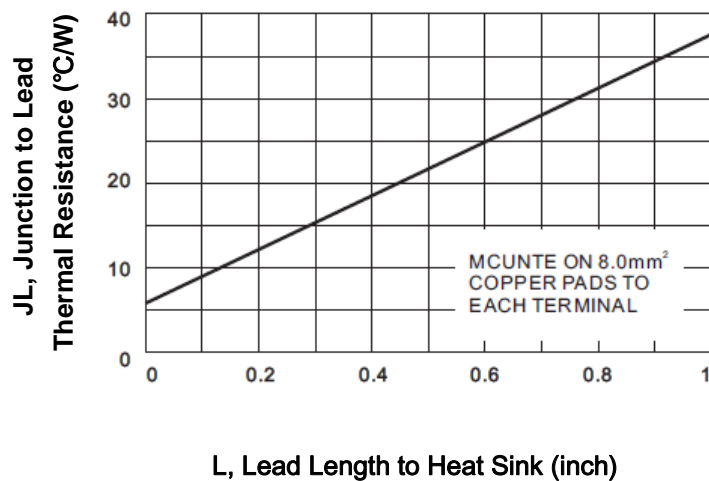


Fig.4- Maximum Non-Repetitive Surge Current vs. Nominal Zener Voltage

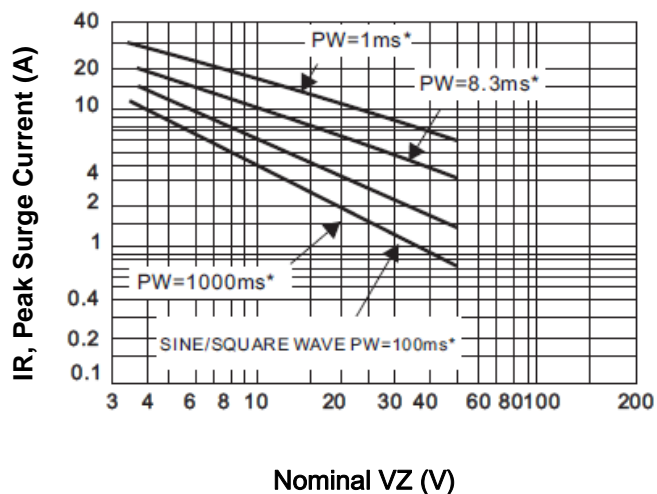
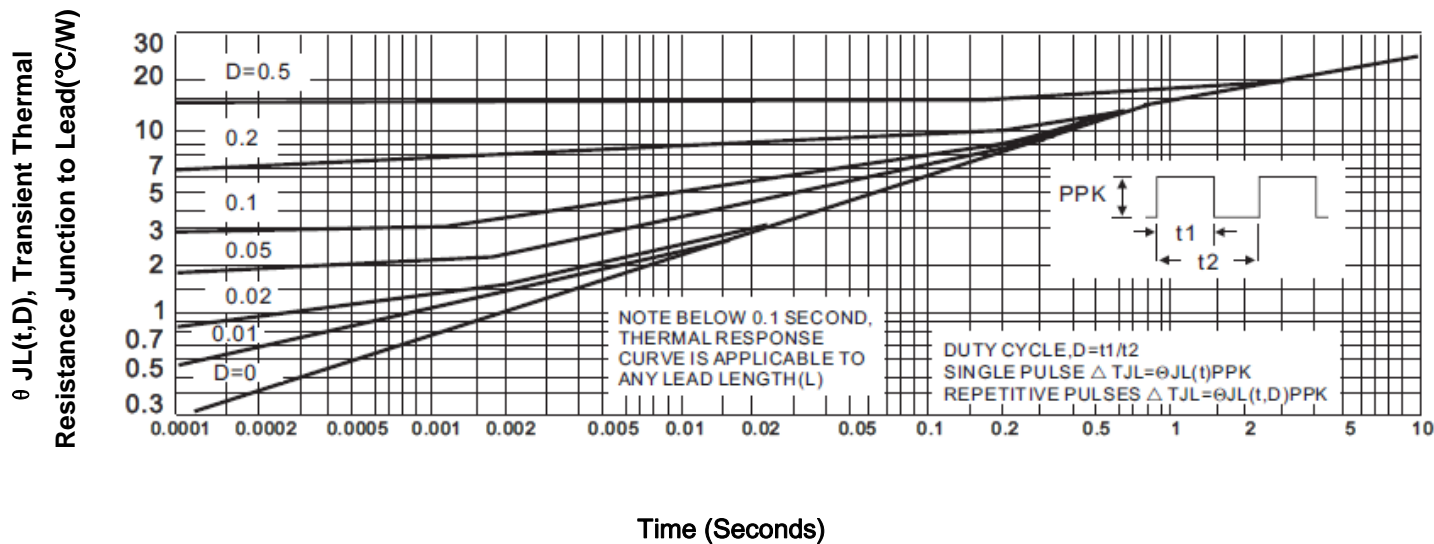


Fig.5- Typical Thermal Response



5W Surface Mount Zener Diodes

Z5SMC5334B - Z5SMC5369B

Fig.6- Peak Surge Current vs. Pulse width

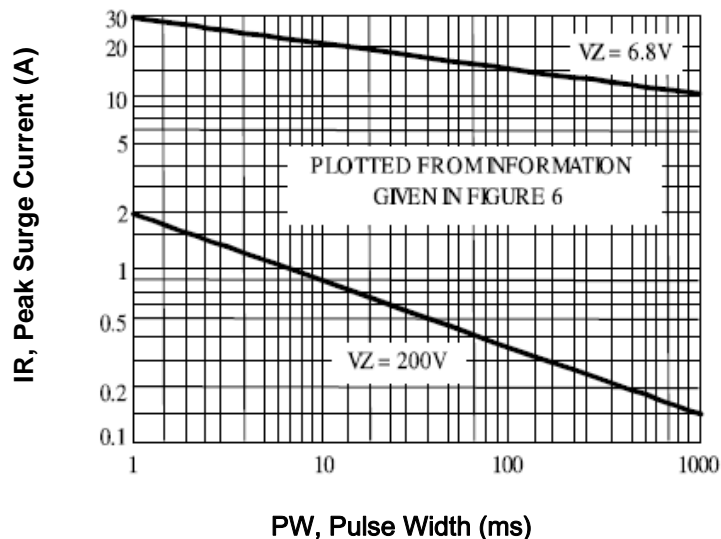


Fig.7- Zener Voltage vs. Zener Current
 $V_Z = 3.6$ thru 6 Volts

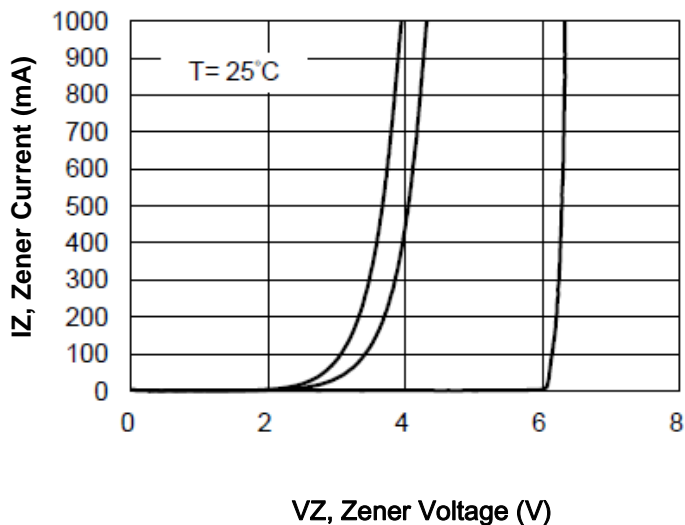


Fig.8- Zener Voltage vs. Zener Current
 $V_Z = 6.8$ thru 10 Volts

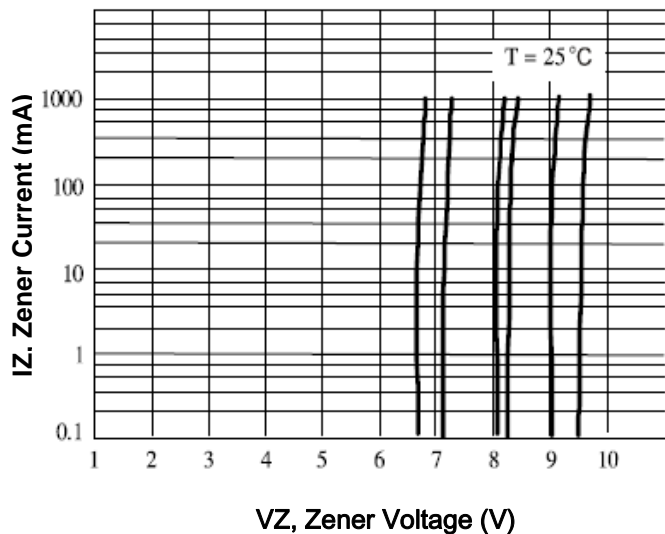
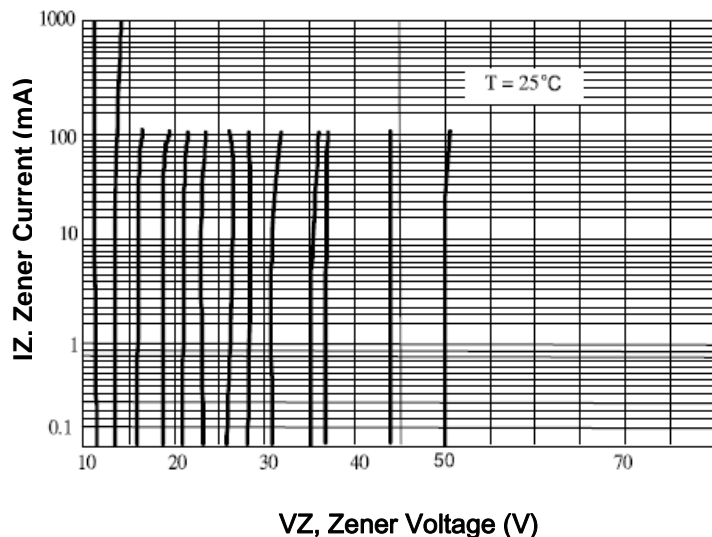


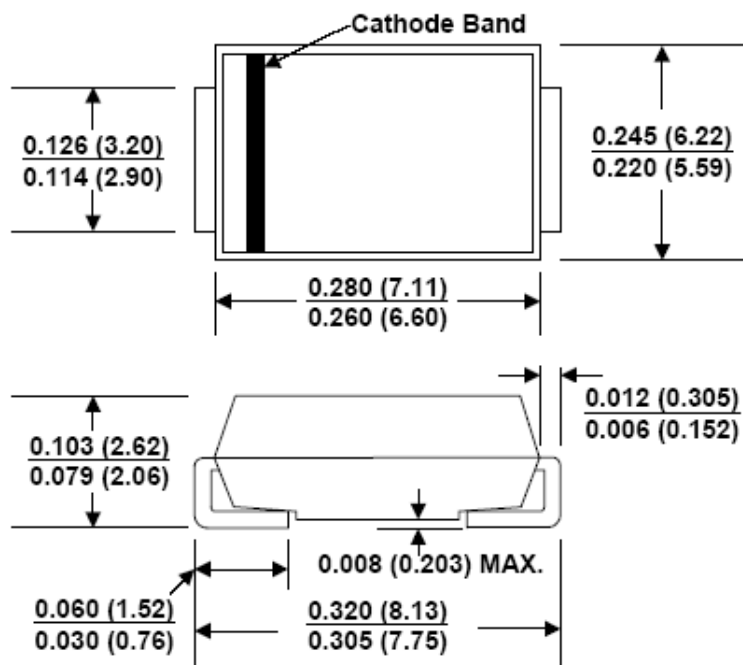
Fig.9- Zener Voltage vs. Zener Current
 $V_Z = 11$ thru 51 Volts



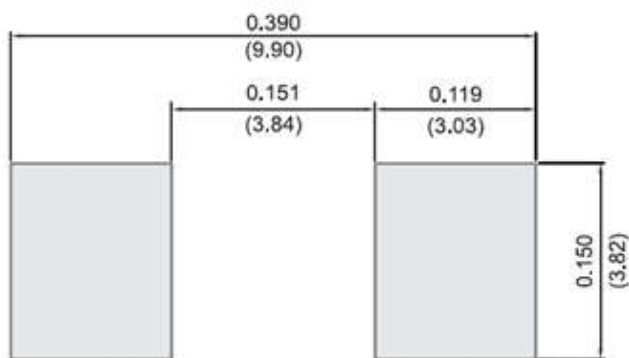
5W Surface Mount Zener Diodes

Z5SMC5334B - Z5SMC5369B

Dimensions in inch (mm)



Soldering Pad in inch (mm)

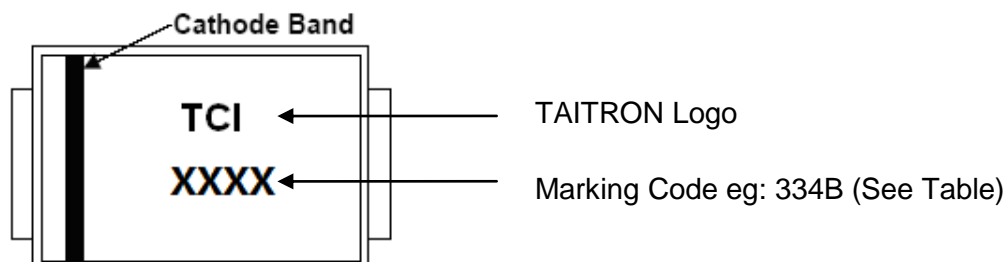


SMC (DO-214AB)

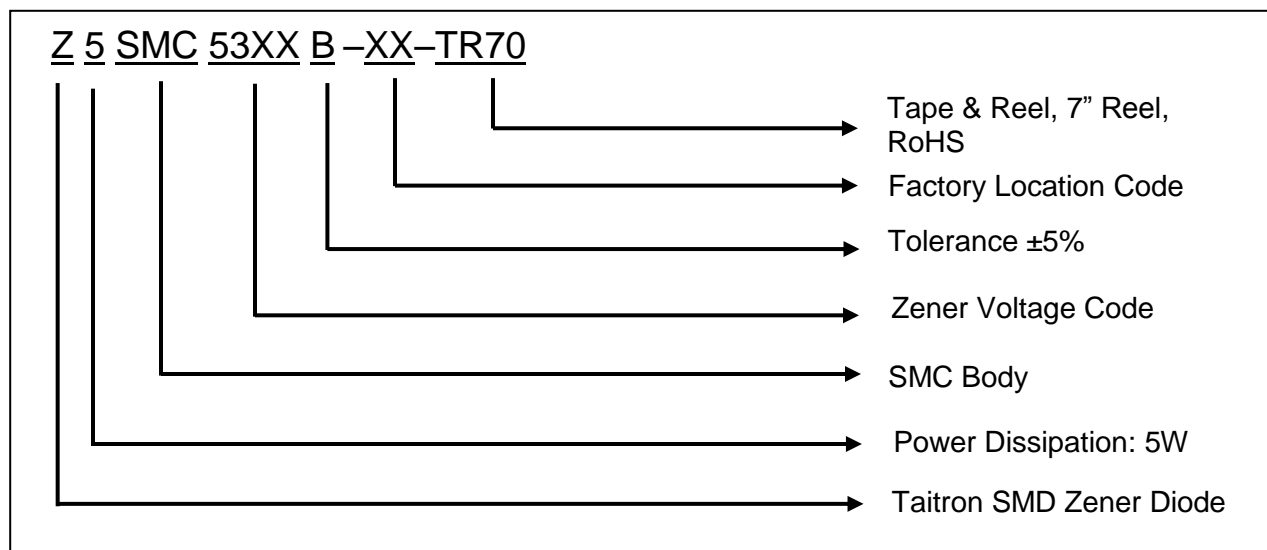
5W Surface Mount Zener Diodes

Z5SMC5334B - Z5SMC5369B

Marking Information:



Ordering Information



5W Surface Mount Zener Diodes

Z5SMC5334B - Z5SMC5369B

How to contact us

USA HEADQUARTERS

28040 WEST HARRISON PARKWAY, VALENCIA, CA 91355-4162

Tel: (800)-TAITRON (800)-824-8766 (661)-257-6060

Fax: (800)-TAITFAX (800)-824-8329 (661)-257-6415

Email: taitron@taitroncomponents.com

Http://www.taitroncomponents.com

TAITRON COMPONENTS INCORPORATED TAIWAN BRANCH

6F., NO.190, SEC. 2, ZHONGXING RD., XINDIAN DIST., NEW TAIPEI CITY 23146, TAIWAN R.O.C.

Tel: 886-2-2913-6238

Fax: 886-2-2913-6239

TAITRON COMPONENT TECHNOLOG SHANGHAI CORPORATION

SUITE 1503, METROBANK PLAZA, 1160 WEST YAN'AN ROAD, SHANGHAI, 200052, CHINA

Tel: +86-21-5424-9942

Fax: +86-21-2302-5027