

RoHS FLAT CHIP DIODES

★ *Thinnest*

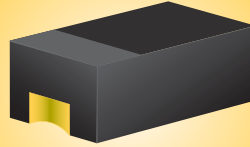
★ *No Lead-Frame*

★ *Lightest*

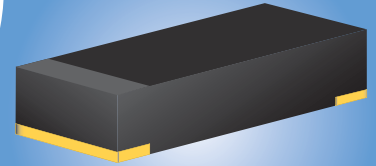
★ *Smallest*



SOD-523F



SOD-323F



SOD-123F

● **RoHS Compliant Diodes:**

Flat Chip Package complies with RoHS without Sn whisker concerns

● **Work with RoHS and Pb-based manufacturing process:**

Copper/Nickel/Gold termination offers excellent solderability

● **High Temperature Molding Material:**


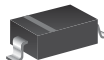

Three times oven re-flow at 260°C for 10~12 seconds

● **No Lead-Frame Diodes:**

Eliminate Lead-Frame for lower production cost

● **Size Reduction Technology:**



	SOD-123F	→	SOD-323F	→	SOD-523F	→	SOD-723F
No Lead-Frame							
	SOD-123	→	SOD-323	→	SOD-523	→	?
Lead-Frame							
	MiniMELF	→	MicroMELF	→	?		
MELF							

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Super



Low V_F Schottky

Comchip Technology is proud to launch Super Low V_F Schottky diodes (CDBA120SL, CDBA140SL). These are available in SMA package at 1A, 20V or 40V. With a super low V_F of 0.31V @1A, these diodes are designed to save more energy and extend battery life for today's portable electronic devices.

◆ Low V_F Schottky

Part Number	I_o (A)	V_R (V)	V_F (V)	Case	
New CDBM120L-G/ 140L-G	1.0	20 / 40	0.38 ~ 0.40	MiniSMA	
CDBL120L-G/ 140L-G	1.0	20 / 40	0.38 ~ 0.40	DO-213AB	
CDBA120L-G/ 140L-G	1.0	20 / 40	0.40 ~ 0.38	DO-214AC	
CDBA120LL-G/ 140LL-G	1.0	20 / 40	0.37 ~ 0.34	DO-214AC	
New CDBA120SL-G/ 140SL-G	1.0	20 / 40	0.31 ~ 0.31	DO-214AC	
CDBA220L-G/ 240L-G	2.0	20 / 40	0.38 ~ 0.40	DO-214AC	
CDBA220LL-G/ 240LL-G	2.0	20 / 40	0.34 ~ 0.36	DO-214AC	
CDBA320L-G/ 340L-G	3.0	20 / 40	0.42 ~ 0.45	DO-214AC	
CDBA320LL-G/ 340LL-G	3.0	20 / 40	0.38 ~ 0.40	DO-214AC	

◆ Small Signal Low V_F Schottky

Part Number	I_o (mA)	V_R (V)	V_F (V)	Case	
CDBU00340	30	40	0.37	SOD-523F	
CDBU0130	100	30	0.44	SOD-523F	
CDBU0230	200	30	0.50	SOD-523F	
CDBU0240	200	40	0.55	SOD-523F	
CDBF00340	30	40	0.37	SOD-323F	
CDBF0130	100	30	0.44	SOD-323F	
CDBF0230	200	30	0.50	SOD-323F	
CDBF0240	200	40	0.55	SOD-323F	

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TVS/ESD Suppressor

Comchip TVS/ESD suppressors are designed for use in a variety of digital circuit protection applications including computer peripheral ports (IEEE1284, USB, Firewire, SCSI, gaming, video, keyboard, audio, DC power), industrial control systems, audio and networking equipments. With characteristics of low capacitance, ultra fast response time and stable breakdown, TVS/ESD suppressors have significant application advantages over metal oxide varistors. These components are RoHS compliant and offer a 16KV ESD suppression at 8/20us transient rating (IEC 61000-4-2).

◆ ESD Suppressor

Part Number	Channels	V _{ESD} (V)	I _{pp} (A)	Case
CPDU5V0 ~ 36V	1	5 ~ 36	5.1 ~ 15	SOD-523F
CPD1E5V0-G ~ 36V-G	1	5 ~ 36	5.1 ~ 15	0503
CKLS145V0-G ~ 36V-G	1	5 ~ 36	5.1 ~ 15	SOT-143
CPEV5V0-G ~ 36V-G	1	5 ~ 36	1 ~ 5	SOD-323

◆ ESD Suppressor Array

Part Number	Channels	V _{ESD} (V)	I _o (mA)	Case
CDAAQ20-G	18	10	50	QSOP-20
CDA2Q20-G	17	10	50	QSOP-20
CDA3S06-G	4	10	50	SOT23-6
CDA4S14-G	2	13	50	SOT-143
CDA6N08-G	6	13	50	NSOIC-8
CDA7Q24-G	18	13	50	QSOP-24
CDA8S03-G	1	10	50	SOT-23
CDA9N08-G	4	10	50	NSOIC-8

◆ ESD Suppressor Array

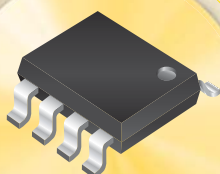
Part Number	Channels	V _{ESD} (V)	I _{pp} (A)	Case
CEAS035V0-G ~ 36V-G	2	5 ~ 36	5.1 ~ 15	SOT23-3
CEBS035V0-G ~ 36V-G	4	5 ~ 36	5.1 ~ 15	SOT23-6
CECS035V0-G ~ 36V-G	5	5 ~ 36	5.1 ~ 15	SOT23-6
CEDS035V0-G ~ 36V-G	4	5 ~ 36	5.1 ~ 15	SOT23-5
CEGS035V0-G ~ 36V-G	1	5 ~ 36	5.1 ~ 15	SOT-143
CEEN085V0-G ~ 24V-G	4	5 ~ 24	5.1 ~ 15	NSOIC-8
CEEN145V0-G ~ 24V-G	7	5 ~ 24	5.1 ~ 15	NSOIC-14
CEEN165V0-G ~ 24V-G	8	5 ~ 24	5.1 ~ 15	NSOIC-16
CEEQ165V0-G ~ 24V-G	8	5 ~ 24	5.1 ~ 15	QSOP-16
CEEW165V0-G ~ 24V-G	8	5 ~ 24	5.1 ~ 15	WSOIC-16
CEEW205V0-G ~ 24V-G	10	5 ~ 24	5.1 ~ 15	WSOIC-20
CEFN085V0-G ~ 24V-G	7	5 ~ 24	5.1 ~ 15	NSOIC-8
CEFN145V0-G ~ 24V-G	13	5 ~ 24	5.1 ~ 15	NSOIC-14
CEFN165V0-G ~ 24V-G	15	5 ~ 24	5.1 ~ 15	NSOIC-16
CEFQ165V0-G ~ 24V-G	15	5 ~ 24	5.1 ~ 15	QSOP-16
CEFW165V0-G ~ 24V-G	15	5 ~ 24	5.1 ~ 15	WSOIC-16
CEFW205V0-G ~ 24V-G	19	5 ~ 24	5.1 ~ 15	WSOIC-20

◆ TVS Array

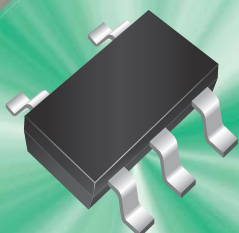
Part Number	P _{ppm} (Watts)	V _R (V)	Case
CTAN145V0-G ~ 36V-G	300	5 ~ 36	SOIC-14
CTBN145V0-G ~ 36V-G	300	5 ~ 36	SOIC-8
CTCN145V0-G ~ 36V-G	300	5 ~ 36	SOIC-8
CTDN145V0-G ~ 36V-G	300	5 ~ 36	SOT-623
CTEN145V0-G ~ 36V-G	300	5 ~ 36	SOT-23



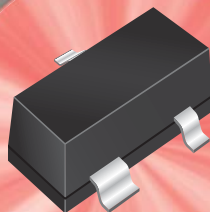
SOD-523F



NSOIC-8



SOT23-5



SOT-143

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ZENER DIODES

Comchip Technology is proud to offer a full line of SMD Zener Diodes. Available in SOD-523F, SOD-323F, SOD-323, SOT-23, SOD-80, DO-214AC, DO-214AA and DO-214AB packages with V_Z from 2V to 300V. A wide selection for diverse applications.

◆ Zener Diodes

Part Number	P_D (W)	V_Z (V)	Case	
New CZRU52 Series	0.2	2.0 ~ 39	SOD-523F	
New CZRF52 Series	0.2	2.0 ~ 39	SOD-323F	
CZRV52 Series -G	0.2	2.4 ~ 39	SOD-323	
CZRW55 Series -G	0.41	2.4 ~ 39	SOD-123	
CZRT55 Series -G	0.41	2.4 ~ 39	SOT-23	
CZRL55 Series -G	0.5	2.4 ~ 75	SOD-80	
CZRL52 Series -G	0.5	3.0 ~ 75	SOD-80	
CZRW52 Series -G	0.5	2.4 ~ 39	SOD-123	
CZRL47 Series -G	1.0	3.3 ~ 100	LL-35	
CZRM27 Series -G	0.8	6.8 ~ 200	MiniSMA	
CZRA47 Series -G	1.0	10 ~ 100	DO-214AC	
CZRB20 Series -G	2.0	11 ~ 100	DO-214AA	
CZRA30 Series -G	3.0	11 ~ 100	DO-214AC	
CZRB30 Series -G	3.0	11 ~ 100	DO-214AA	
CZRB59 Series -G	3.0	11 ~ 200	DO-214AA	
CZRC53 Series -G	5.0	11 ~ 200	DO-214AB	

◆ High Voltage Zener Diodes

Part Number	P_D (W)	V_Z (V)	Case	
CZRA11, 12, 13 Series -G	1.0	110 ~ 300	DO-214AC	
CZRB21, 22, 23 Series -G	2.0	110 ~ 300	DO-214AA	
CZRB31, 32, 33 Series -G	3.0	110 ~ 300	DO-214AA	

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