



A Product Line of Diodes Incorporated



**Diodes**  
Schottky Diodes (Cont.)



V <sub>R</sub> Max. (V)	I <sub>F</sub> Max. (mA)	V <sub>F</sub> @		I <sub>r</sub> @		Pinning Configuration	Packaging Type	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 1,000	
		Max. (mV)	I <sub>F</sub> (mA)	Max. (µA)	V <sub>r</sub> (V)				1	10	100			
13.2	400	360	50	10	30	—	SM-8	ZXSBMR16PT8CT-ND	2.88	2.16	1.30	ZXSBMR16PT8TR-ND	816.00	

**Switching**

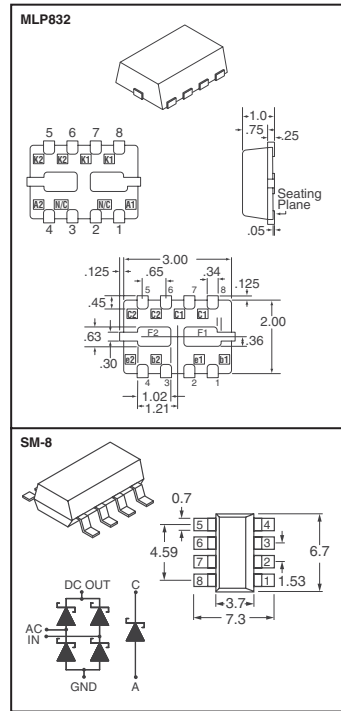
V <sub>R</sub> Max. (V)	I <sub>F</sub> Max. (mA)	V <sub>F</sub> @		I <sub>r</sub> @		Pinning Configuration	Packaging Type	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 3,000	
		Max. (mV)	I <sub>F</sub> (mA)	Max. (µA)	V <sub>r</sub> (V)				1	10	100			
<b>Dual — RoHS Compliant</b>														
30	200	500	30	4	25	Common Cathode Series	SOT-23	BAT54SCT-ND	.13	.10	.07	BAT54STR-ND	27.50/M	
							SOT-23	BAT54CCT-ND	.13	.10	.07	BAT54CTR-ND	39.60/M	
<b>ZLLS Series — Low Leakage</b>														
40	2200	370	500	40	30	Single	SOT-23-6	ZLLS2000CT-ND	1.24	.93	.56	ZLLS2000TR-ND	309.00/M	
							SOT-23	ZLLS1000CT-ND	.78	.59	.39	ZLLS1000TR-ND	234.00/M	
							SOT-23	ZLLS500CT-ND	.66	.50	.30	ZLLS500TR-ND	165.00/M	
							SOD-523	ZLLS350TACT-ND	.57	.43	.29	ZLLS350TATR-ND	171.00/M	
							SOD-323	ZLLS400TACT-ND	.57	.43	.26	ZLLS400TATR-ND	142.50/M	

**Zener**

Silicon voltage regulator diodes designed for voltage reference and stabilizer applications. Encapsulated in the popular SOT-23 package, these devices are designed specifically for use in thin and thick film hybrid circuits in both industrial and commercial applications.  
**Specifications:** • Nominal Tolerance: ±5% • Maximum Power Dissipation at Tamb = 25°C: Ptot 350mW • Operating and Storage Temperature Range: -65°C - 150°C • Maximum Forward Current: IF 250mA

Zener Voltage Vz @ Iz = 5mA			Diff. Resistance rz @ Iz = 5mA Max. (Ω)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 3,000	
Nom.	Min.	Max.			1	10	100			
<b>Zener Diodes — Silicon Voltage Regulator Diodes — SOT-23 Packaging</b>										
20	18.8	21.2	55	BZX84C20ZXCCT-ND	.91	.69	.46	—	—	—
36.0	34.0	38.0	90†	BZX84C36ZXCCT-ND	.91	.69	.46	—	—	—
39	37	41	130‡	BZX84C39ZXCCT-ND	.91	.69	.46	BZX84C39ZXTR-ND	273.60/M	—
47	44	50	170‡	BZX84C47ZXCCT-ND	.91	.69	.46	—	—	—

◆ RoHS Compliant † Banded to tighter capacitance range (Measured at VR=1.5V) ‡ Iz at 2mA



C

**MOSFETs**

**20 Volts**

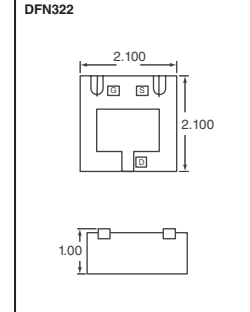
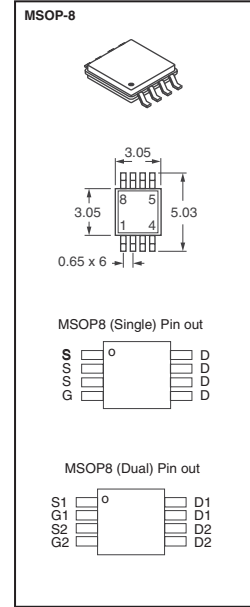
BV <sub>DSS</sub> (V)	I <sub>D</sub> (mA)	I <sub>DM</sub> (A)	V <sub>GS</sub> (th) @ I <sub>D</sub>		R <sub>DS</sub> (on) @ I <sub>D</sub>		P <sub>D</sub> (W)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Qty. Pricing		
			Min.	Max.	Max.	@				1	10	100				
<b>N-Channel — RoHS Compliant</b>																
20	8300	50	0.7	—	0.25	0.020	11000	4.5	1.560	SO-8	ZXMN2A02N8CT-ND	2.22	1.67	ZXMN2A02N8TR-ND	500	388.50
	6000	27	0.7	—	0.25	0.020	11000	4.5	1.100	MSOP-8	ZXMN2A02X8CT-ND	2.89	2.17	ZXMN2A02X8TR-ND	1,000	817.70
	5400	30	0.7	—	0.25	0.040	3800	4.5	1.100	MSOP-8	ZXM64N02XCT-ND	2.39	1.80	ZXM64N02XTR-ND	1,000	678.30
	4300	26	0.4	1.0	0.25	0.075	3200	1.8	1.1	SOT-23-6	ZXMN2B03E6CT-ND	1.09	.82	ZXMN2B03E6TR-ND	3,000	271.50/M
	4100	22.6	0.6	1.5	0.25	0.045	2500	4.5	0.96	SOT-23	ZXMN2F30FHCT-ND	.50	.38	ZXMN2F30FHTR-ND	3,000	124.50/M
	4000	19	0.5	1.5	0.25	0.060	2500	4.5	1.35	DFN322	ZXMN2F34MACT-ND	.64	.48	ZXMN2F34MATR-ND	3,000	159.00/M
	3600	16	0.7	—	0.25	0.055	7200	4.5	1.100	SOT-23-6	ZXMN2A03E6CT-ND	1.26	.95	ZXMN2A03E6TR-ND	3,000	315.00/M
	3500	21	0.4	1.0	0.25	0.100	2600	1.8	1	SOT-23	ZXMN2B14FHCT-ND	1.21	.91	ZXMN2B14FHTR-ND	3,000	301.50/M
	3400	19	0.7	—	0.25	0.110	2500	2.5	1.000	SOT-23	ZXMN2A14FCT-ND	.75	.57	ZXMN2A14FTR-ND	3,000	187.50/M
	3400	18.6	0.5	1.5	0.25	0.060	2500	4.5	0.95	SOT-23	ZXMN2F34FHCT-ND	.46	.35	ZXMN2F34FHTR-ND	3,000	114.00/M
	2440	10	0.7	—	0.25	0.120	4000	4.5	1.100	SOT-23-6	ZXMN2A01E6CT-ND	.87	.66	ZXMN2A01E6TR-ND	3,000	217.50/M
	2100	11.8	0.4	1.0	0.25	0.200	1700	1.8	0.625	SOT-23	ZXMN2B01FCT-ND	.72	.54	ZXMN2B01FTR-ND	3,000	180.00/M
1900	8	0.7	—	0.25	0.120	4000	4.5	0.625	SOT-23	ZXMN2A01FCT-ND	.60	.45	ZXMN2A01FTR-ND	3,000	150.00/M	
1700	7.4	0.7	—	0.25	0.180	930	4.5	0.625	SOT-23	ZXM61N02FCT-ND	.72	.54	ZXM61N02FTR-ND	3,000	240.00/M	
<b>Dual — RoHS Compliant</b>																
20	7700	38	1.0	—	0.25	0.025	5900	4.5	2.100	SO-8	ZXMN2A04DN8CT-ND	3.72	2.79	ZXMN2A04DN8TR-ND	500	651.00
	3000	13	0.7	—	0.25	0.120	4000	4.5	1.5	MLP832	ZXMN2AM832CT-ND	1.72	1.29	ZXMN2AM832TR-ND	3,000	429.00/M
	2400	19	0.7	—	0.25	0.130	1700	4.5	1.040	MSOP-8	ZXM63N02XCT-ND	4.33	3.25	ZXM63N02XTR-ND	1,000	1225.70
<b>P-Channel</b>																
-20	-900	-4.9	-0.7	—	0.25	0.6	-610	-4.5	.625	SOT-23	ZXM61P02FCT-ND	.45	.34	ZXM61P02FTR-ND	3,000	150.00/M
	-2300	-13	-0.7	—	0.25	0.2	-1600	-4.5	1.1	SOT-23-6	ZXM62P02E6CT-ND	1.14	.86	ZXM62P02E6TR-ND	3,000	285.00/M
	-3500	-19	-0.7	—	0.25	0.09	-2400	-4.5	1.1	MSOP-8	ZXM64P02XCT-ND	2.41	1.81	ZXM64P02XTR-ND	1,000	681.70
	-8000	-28	-0.7	—	0.25	0.025	-3200	-4.5	2.5	SO-8	ZXM66P02N8CT-ND	5.15	3.87	ZXM66P02N8TR-ND	500	901.95
<b>Dual</b>																
-20	-1700	-9.6	-0.7	—	0.25	0.27	-1200	-4.5	1.040	MSOP-8	ZXM63P02XCT-ND	2.40	1.80	ZXM63P02XTR-ND	1,000	680.00
<b>N and P Channel Complementary</b>																
20	2400	19	0.7	—	0.25	0.13	1700	4.5	1.04	MSOP-8	ZXM63C02XCT-ND	4.12	3.09	ZXM63C02XTR-ND	1,000	1166.20
-20	-1700	-9.6	-0.7	—	-0.25	-0.27	-1200	-4.5	1.04							

**30 - 50 Volts**

BV <sub>DSS</sub> (V)	I <sub>D</sub> (mA)	I <sub>DM</sub> (A)	V <sub>GS</sub> (th) @ I <sub>D</sub>		R <sub>DS</sub> (on) @ I <sub>D</sub>		P <sub>D</sub> (W)	Packaging Type	Digi-Key Part No.	Loose Piece Price Each					
			Min.	Max.	Max.	@				1	10	100	1,000		
<b>N-Channel — RoHS Compliant</b>															
35	13000	30	1.0	—	0.250	0.060	3700	10	20	TO-220	ZXM64N035L3-ND	3.12	2.34	1.56	1.04
<b>P-Channel — RoHS Compliant</b>															
-35	-12000	-19	-1.0	—	0.250	0.075	2400	10	20	TO-220	ZXM64P035L3-ND	3.48	2.61	1.74	1.16
-45	-230	-3	-1.0	-3.5	1	14	200	-10	0.7	TO-92	BS250P-ND	1.50	1.13	.75	.50
-50	-175	-0.52	-0.8	-2.0	1	10	100	-5	0.625	TO-92	ZVP4105A-ND	1.37	1.04	.62	.39

◆ RoHS Compliant § Tape and Box

(Continued)



Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

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