

●Special Zener Diodes

Part No.	Absolute maximum ratings				Electrical characteristics (Ta=25°C)								Package	Circuit
	P (mW)	Tj (°C)	Tstg (°C)	Topt (°C)	Vz (V)	Iz (mA)	IR (mA) Max.	VR (V)	Zzk (Ω) Max.	Iz (mA)	Zzk (Ω) Max.	Iz (mA)		
UMZ8.2T	200	150	-55~+150	-	7.76~8.64	5	0.50	5	30	5	60	0.5	UMD	Fig.1
New UMZ8.2N	200	150	-55~+150	-	7.76~8.64	5	0.50	5	30	5	60	0.5	UMD	Fig.2
New UMZ12N	200	150	-55~+150	-	11.0~13.0	5	0.10	9	30	5	80	0.5	UMD	Fig.2
STZ6.8T	200	150	-55~+150	-	6.47~7.14	5	0.50	3.5	40	5	60	0.5	SMD	Fig.1

●Integrated switching and zener elements

Part No.	Pins 1 to 4 (or entire package) : 1 : cathode 4 : anode											Package	Circuit
	Absolute maximum ratings				Electrical characteristics (Ta=25°C)								
	P (mW)	Tj (°C)	Tstg (°C)	Topt (°C)	Vz (V)	Iz (mA)	IR (mA) Max.	VR (V)	Zzk (Ω) Max.	Iz (mA)	Zzk (Ω) Max.		
	200	150	-55~+150	-	-55~+150	53.0~60.0	2	0.2	43				
☆FTZ56E	Pins 2-4 (2 : cathode 4 : anode)											FMD	Fig.3
	Absolute maximum ratings				Electrical characteristics (Ta=25°C)								
	VR (V)	IFM (mA)	Isurge 1s (mA)	VF (V) Max.	IF (mA)	IR (mA) Max.	VR (V)	CT (pF) Max.	VR (V)	f (MHz)	OSC (mV)		
	35	225	400	1.2	100	0.5	35	3.0	0.5	1	20		

Note : ☆Under development

Zener Diodes

Diodes

(Unit : mm)

UMD (SOT-323)	SMD (SC-59/Japanese SOT-23)	FMD
TOP VIEW	TOP VIEW	TOP VIEW

Internal circuit
Fig.1
Fig.2
Fig.3

●Product Designation

- When ordering, specify the type.
- Check each code against the tables shown below.
- Fill a space with the next character.

U M Z 8 . 2 T T 1 0 6

Part No.

Packaging

Package	Code	Sprocket hole side	Quantity/Package
UMD	T106	1Pin	3,000
	T107	2Pins	
SMD	T146	1Pin	
	T147	2Pins	
FMD	T148	1Pin	3,000
	T149	5Pin	

The Case and Lead outline
refer to Standard and Semi-
standard Products Data

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Packaging
specifications

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Part Marking

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Recommended Lead pattern

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