Absolute Maximum Ratings (Voltages to GND Unless Otherwise Stated)

Parameter	Symbol	Rating	Unit
Reverse Current	V_Z	30	mA
Forward Current		10	mA
Operating Temperature	T_{OMP}	-40 to 85	°C
Storage Temperature	T_{STG}	-55 to 125	°C
Power Dissipation (T_{AMB} = 25°C)	P_D	330	mW

Electrical Characteristics (Test conditions: T_{amb} = 25°C, unless otherwise specified.)

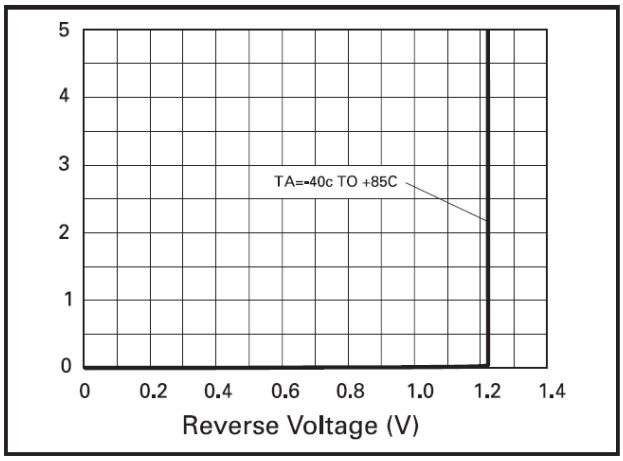
Symbol	Parameter	Condition	Min.	Typ.	Max.	Tol. (%)	Unit
V_R	Reverse breakdown voltage	I_R = 100µA	1.214 1.208 1.196 1.183	1.220 1.220 1.220 1.220	1.226 1.232 1.244 1.257	C/0.5[1] D/1 E/2 F/3	V
I_{MIN}	Minimum operating current			4	8		µA
I_R	Recommended operating current		0.008		20		mA
T_C(*)	Average reverse breakdown voltage temperature coefficient	$I_{R(min)}$ to $I_{R(max)}$		20	75		ppm/°C
$\frac{\Delta V_R}{\Delta I_R}$	Reverse Breakdown Change with Current Voltage	I_R = 30µA to 1mA I_R = 1mA to 12mA			1 10		mV
Z_R	Reverse dynamic impedance	I_R = 1mA f = 100Hz $I_{AC} = 0.1I_R$		0.2	0.6		Ω
E_N	Wideband noise voltage	I_R = 8µA to 100µA f = 10Hz to 10kHz		60			µV(rms)

Notes:

1. (*) $T_C = \frac{(V_{R(MAX)} - V_{R(MIN)}) \times 1000000}{V_R \times (T_{(MAX)} - T_{(MIN)})}$

Note: $V_{R(MAX)}$ - $V_{R(MIN)}$ is the maximum deviation in reference voltage measured over the full operating temperature range.

REVERSE CHARACTERISTICS



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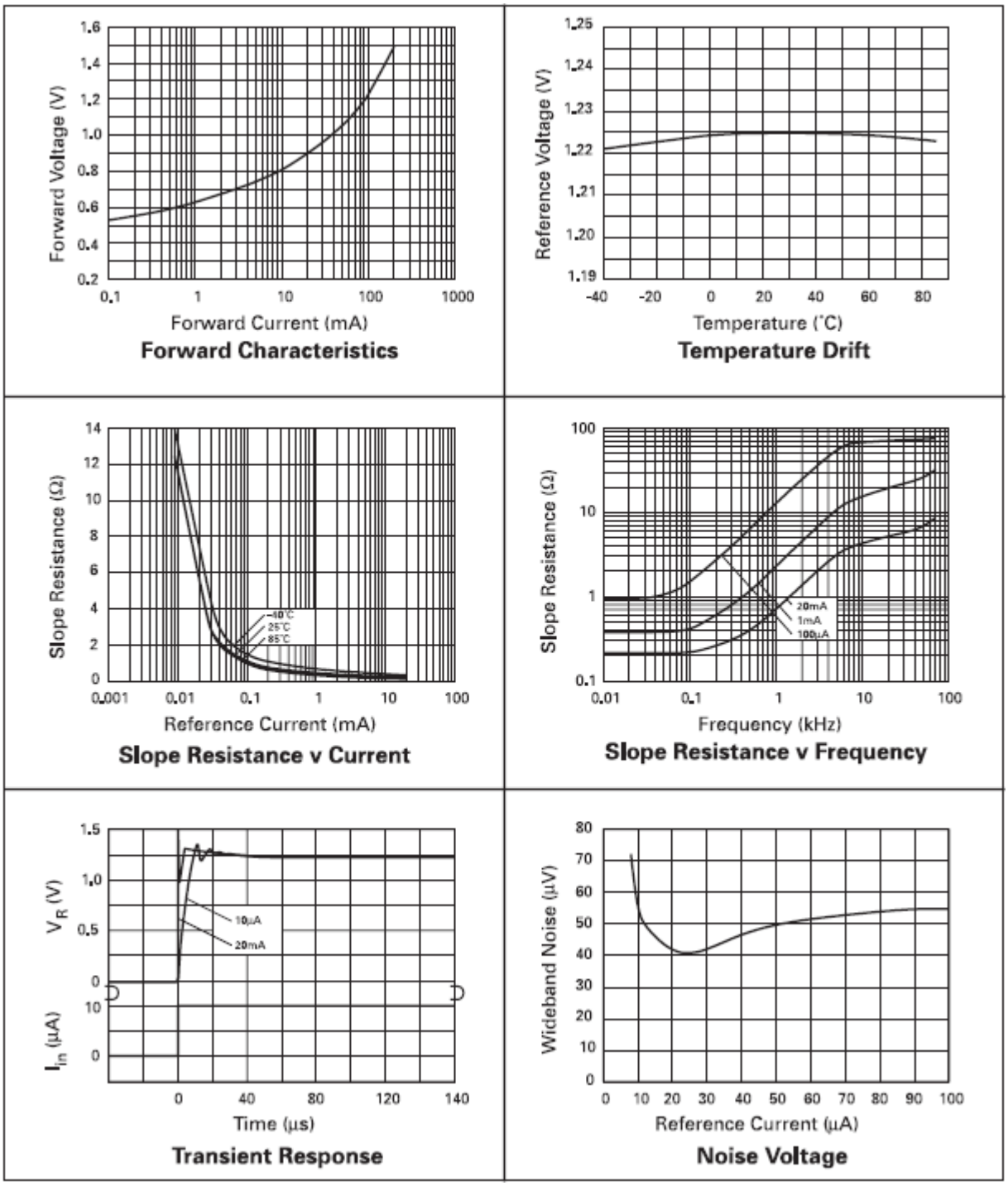
Typical Characteristics



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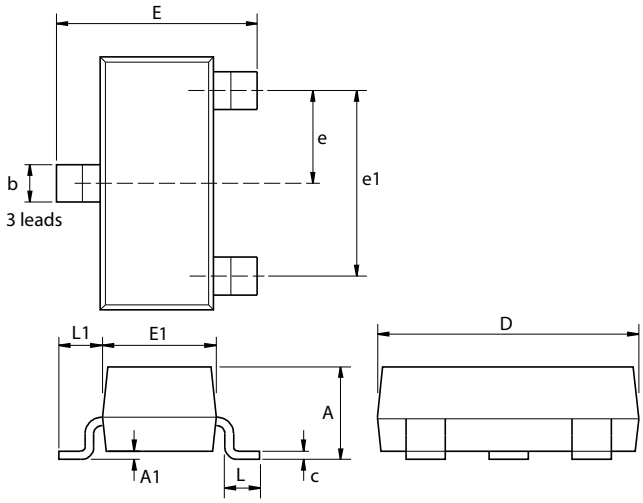
Ordering Information(*)

Order Reference	Tol (%)	Device Mark	Grade	Status (*)	Reel Size (inches)	Quantity per reel	Tape Width (mm)
ZXRE125CFTA	0.5	12J	C	Released	7	3000	8
ZXRE125DFTA	1	12H	D	Released	7	3000	8
ZXRE125EFTA	2	12G	E	Released	7	3000	8
ZXRE125FFTA	3	12F	F	Released	7	3000	8

Notes: * All ZXRE125 E-line variants are obsolete and no longer available for sale.

Package Outline Dimensions



Dim.	Millimeters		Inches		Dim.	Millimeters		Inches	
	Min.	Max.	Min.	Max.		Min.	Max.	Min.	Max.
A	-	1.12	-	0.044	e1	1.90 NOM		0.075 NOM	
A1	0.01	0.10	0.0004	0.004	E	2.10	2.64	0.083	0.104
b	0.30	0.50	0.012	0.020	E1	1.20	1.40	0.047	0.055
c	0.085	0.20	0.003	0.008	L	0.25	0.60	0.0098	0.0236
D	2.80	3.04	0.110	0.120	L1	0.45	0.62	0.018	0.024
e	0.95 NOM		0.037 NOM		-	-	-	-	-

Note: Controlling dimensions are in millimeters. Approximate dimensions are provided in inches

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