



WBFBP-03A Plastic-Encapsulate Diode

DAN222E SWITCHING DIODE

DESCRIPTION

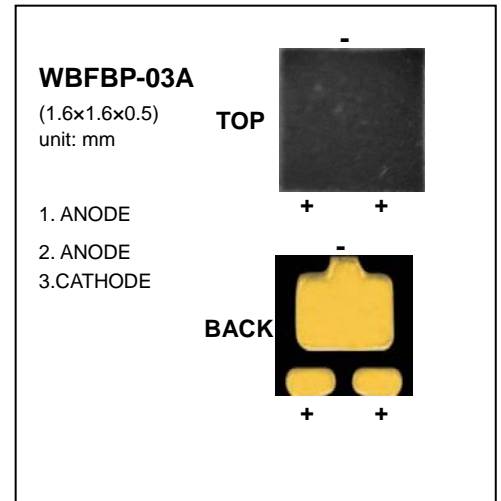
Epitaxial planar Silicon diode

FEATURES:

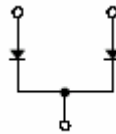
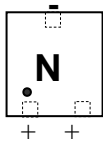
High speed. (trr=1.5ns Typ.)
 Suitable for high packing density layout
 High reliability.

APPLICATION

Ultra high speed switching
 For portable equipment:(i.e. Mobile phone,MP3, MD,CD-ROM,
 DVD-ROM, Note book PC, etc.)



MARKING: N



Maximum Ratings and Electrical Characteristics, Single Diode @T_A=25 °C

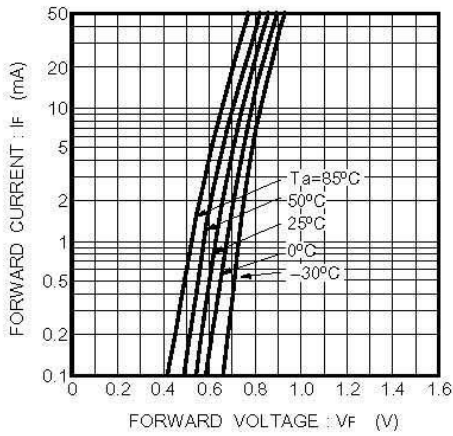
Parameter	Symbol	Limits	Unit
Peak reverse voltage	V _{RM}	80	V
DC reverse voltage	V _R	80	V
Maximum (peak) forward current	I _{FM}	300	mA
Average forward current	I _O	100	mA
Power dissipation	P _D	150	mW
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55-150	°C

ELECTRICAL CHARACTERISTICS (T_{amb}=25°C unless otherwise specified)

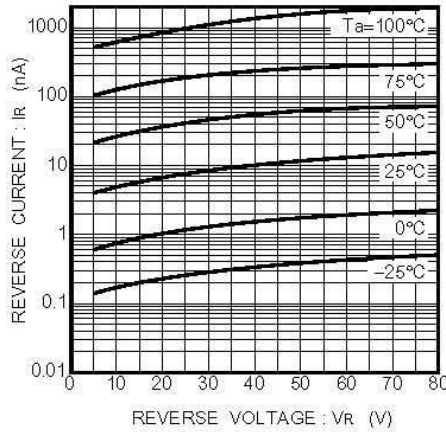
Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse breakdown voltage	V _(BR)	I _R =100μA	80		V
Reverse voltage leakage current	I _R	V _R =70V		0.1	μA
Forward voltage	V _F	I _F =100mA		1.2	V
Diode capacitance	C _D	V _R =6V, f=1MHz		3.5	pF
Reverse recovery time	t _{rr}	V _R =6V, I _F =5mA		4	ns

Typical Characteristics

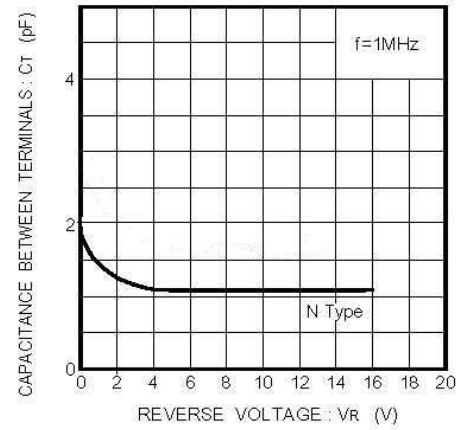
DAN222E



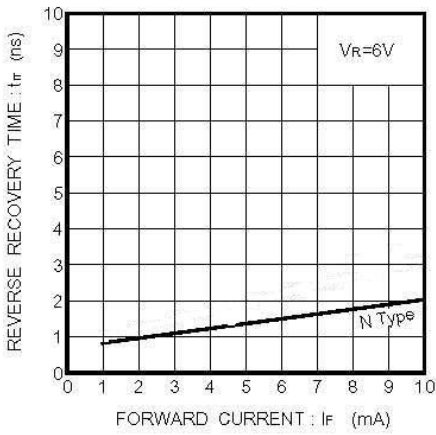
Forward characteristics



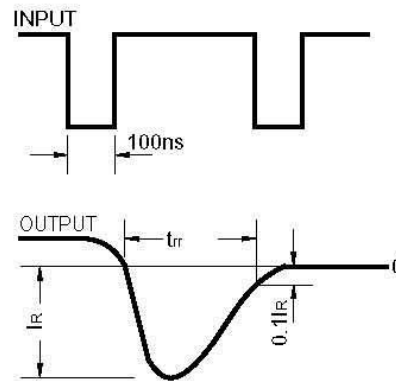
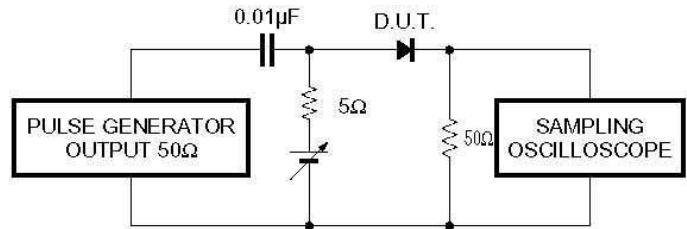
Reverse characteristics



Capacitance between terminals characteristics



Reverse recovery time



Reverse recovery time (t_r) measurement circuit

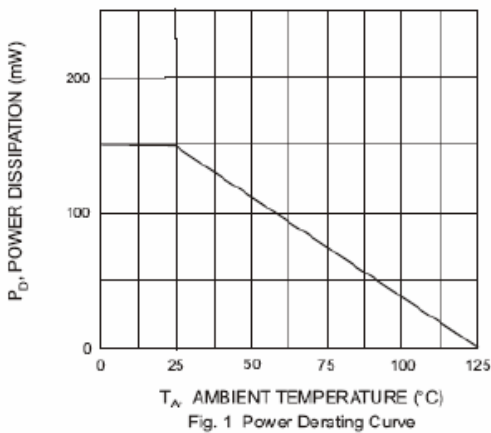
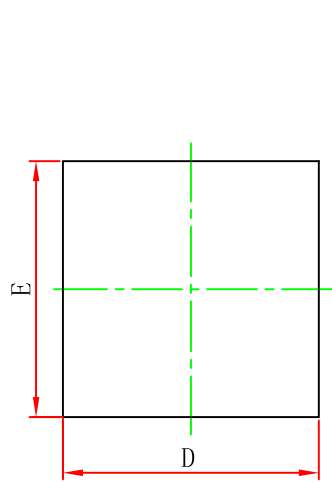
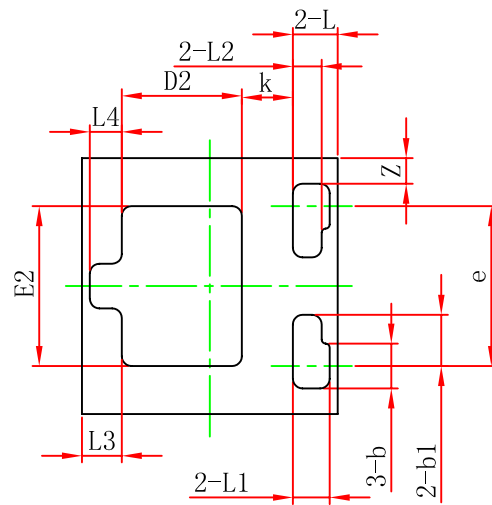


Fig. 1 Power Derating Curve

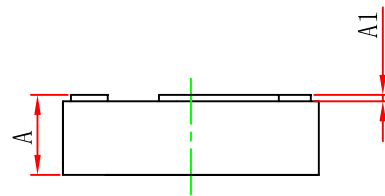
WBFBP-03A(1.6×1.6×0.5) PACKAGE OUTLINE DIMENSIONS



TOP VIEW

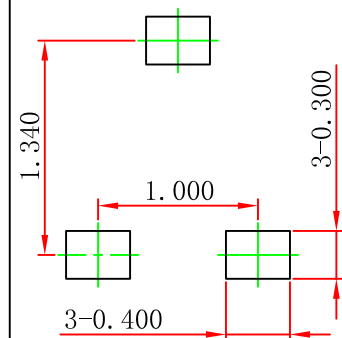


BOTTOM VIEW



SIDE VIEW

(LAND PATTERN RECOMMENDATION)



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.450	0.550	0.018	0.022
A1	0.010	0.090	0.000	0.004
b	0.230	0.330	0.009	0.013
b1	0.320 REF.		0.013 REF.	
D	1.550	1.650	0.061	0.065
E	1.550	1.650	0.061	0.065
D2	0.750 REF.		0.030 REF.	
E2	1.000 REF.		0.040 REF.	
e	1.000 TYP.		0.040 TYP.	
L	0.280 REF.		0.011 REF.	
L1	0.230 REF.		0.009 REF.	
L2	0.180 REF.		0.007 REF.	
L3	0.250 REF.		0.010 REF.	
L4	0.200 REF.		0.008 REF.	
k	0.320 REF.		0.013 REF.	
z	0.160 REF.		0.006 REF.	