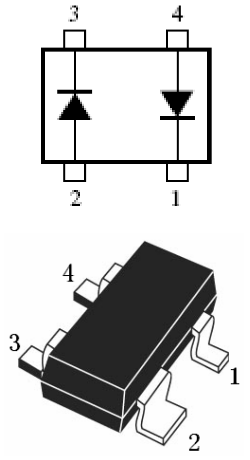
Silicon Epitaxial Planar Type BAT28

FEATURES

Lead-free

- Two isolated elements are contained in one package, allowing high-density mounting.
- Two DIE is contained in one package (two diodes in a different direction).
- Low forward voltage VF , optimum for low voltage Rectification.
- Optimum for high frequency rectification because of its Short reverse recovery time (trr).



SOT-143

APPLICATIONS

- For switching.
- For wave detection.

ORDERING INFORMATION

Type No.	Marking	Package Code
BAT28	B43	SOT-143

MAXIMUM RATING @ Ta=25℃ unless otherwise specified

Symbol	Parameter		Value	Unit
V_R	Rverse Voltage		30	V
I_{FM}	Peak Forward Current	Single Double	150 110	mA
I_F	Forward Current	Single Double	30 20	mA
T_j, T_{stg}	Junction and Storage Temperature		-55 to +125	℃

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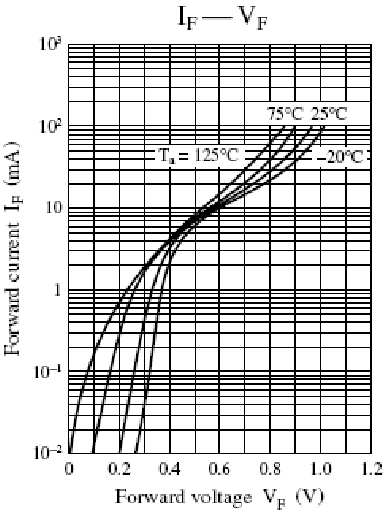
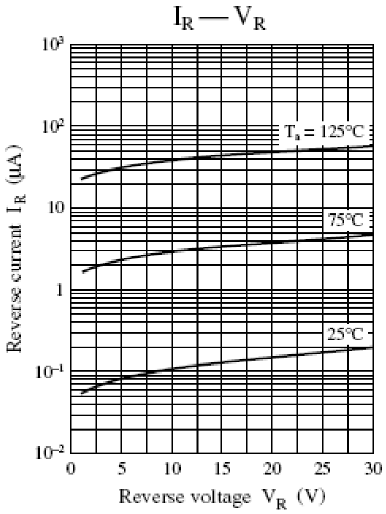
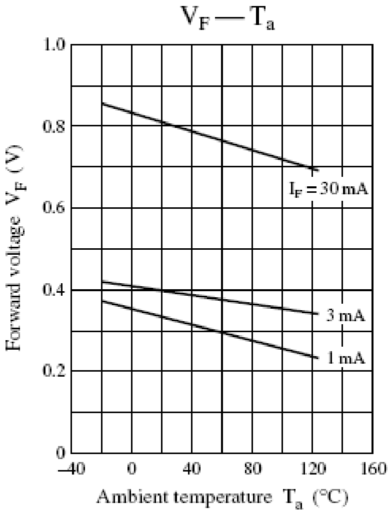
ELECTRICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

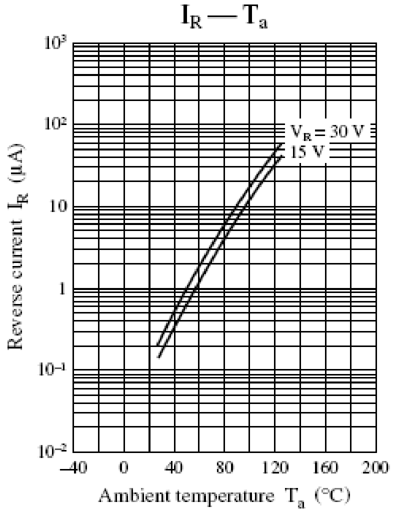
Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Forward Voltage	V_F	I_F=1mA	-	-	0.4	V
		I_F=30mA	-	-	1.3	V
Reverse Current	I_R	V_R=30V	-	-	1	uA
Total capacitance	C_T	V_R=1V,f=1MHz	-	1.5	-	pF
Reverse recovery time	t_{rr}	I_F=I_R=10mA,I_{rr}=1mA,R_L=100Ω	-	1.0	-	ns
Detection efficiency	η	V_{in}=3V,f=30MHz, R_L=3.9kΩ,C_L10pF	-	65	-	%

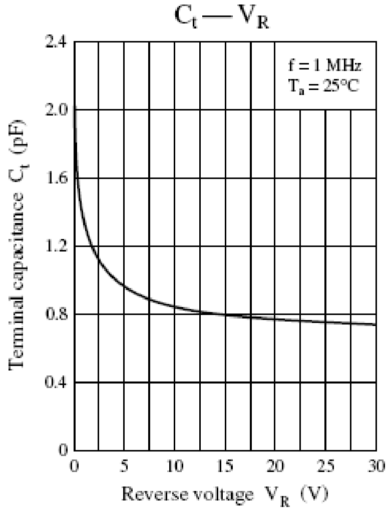
TYPICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified











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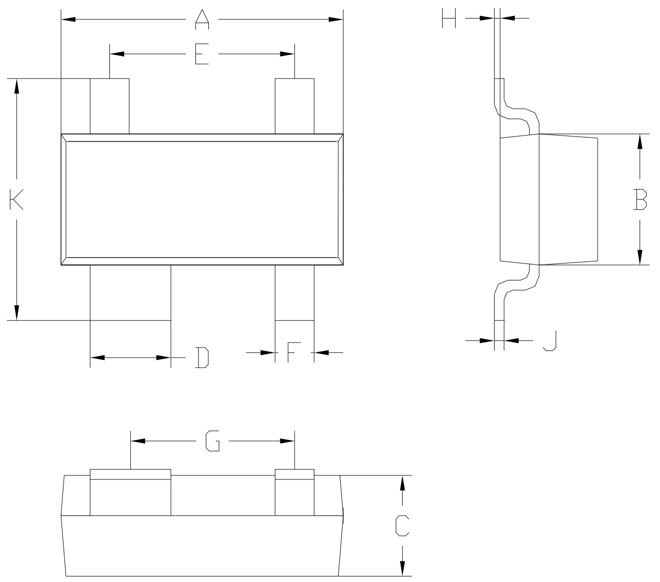
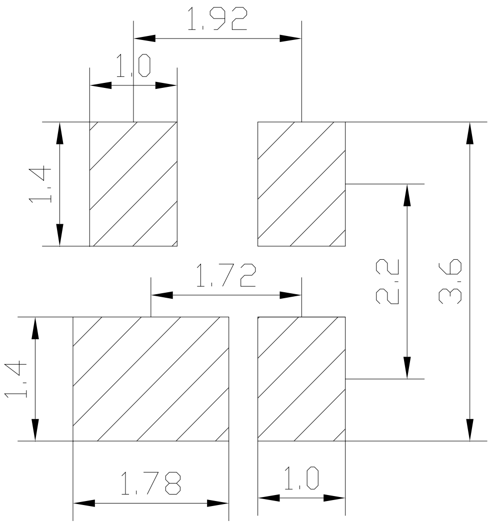
PACKAGE OUTLINE

Plastic surface mounted package SOT-143



SOT-143		
Dim	Min	Max
A	2.85	2.95
B	1.20	1.40
C	1.0 Typical	
D	0.78	0.88
E	1.85	1.95
F	0.30	0.50
G	1.64	1.74
H	0.02	0.1
J	0.1 Typical	
K	2.30	2.50
All Dimensions in mm		

SOLDERING FOOTPRINT



Unit ： mm

PACKAGE INFORMATION

Device	Package	Shipping
BAT28	SOT-143	3000/package