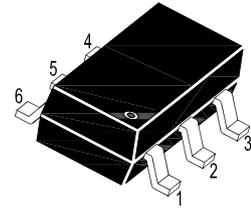
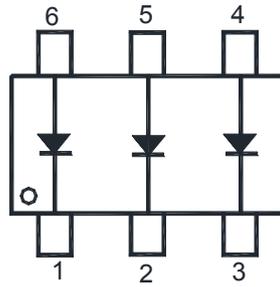


BAS21SD

Silicon Epitaxial Planar Diodes

High Voltage Switching Diodes



1. Cathode 2. Cathode 3. Cathode
4. Anode 5. Anode 6. Anode
Marking Code: SC
SOT-26 Plastic package

Absolute Maximum Ratings ($T_a = 25\text{ }^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	250	V
Continuous Forward Current	$I_{F(AV)}$	200	mA
Repetitive Peak Forward Current	I_{FRM}	625	mA
Non-repetitive Peak Forward Surge Current	I_{FSM}	0.5 2.5	A
		at $t = 1\text{ s}$ at $t = 1\text{ }\mu\text{s}$	
Total Device Dissipation	P_{tot}	350	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	357	$^\circ\text{C/W}$
Junction and Storage Temperature Range	T_j, T_{stg}	- 55 to + 150	$^\circ\text{C}$

Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage	V_F	-	1	V
at $I_F = 100\text{ mA}$				
at $I_F = 200\text{ mA}$			1.25	V
Reverse Breakdown Voltage	$V_{(BR)}$	250	-	V
at $I_R = 100\text{ }\mu\text{A}$				
Reverse Current	I_R	-	100	nA
at $V_R = 200\text{ V}$				
at $V_R = 200\text{ V}, T_j = 150\text{ }^\circ\text{C}$			100	μA
Total Capacitance	C_{tot}	-	5	pF
at $V_R = 0, f = 1\text{ MHz}$				
Reverse Recovery Time	t_{rr}	-	50	ns
at $I_F = I_R = 30\text{ mA}, I_{R(REC)} = 3\text{ mA}, R_L = 100\text{ }\Omega$				

TOP DYNAMIC



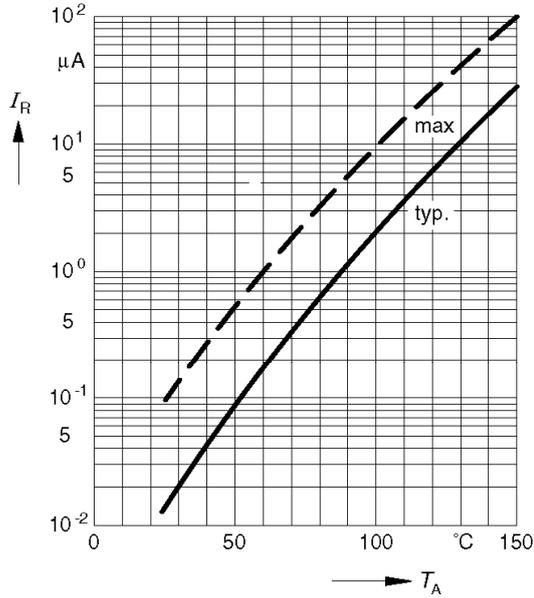
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ISO 9001 : 2008 Certificate No. 90114012
OHSAS 18001 : 2007 Certificate No. 05131506008
IECQ QC 080000 Certificate No. EC2110021 K022

Dated : 10/10/2016 Rev:01

BAS21SD

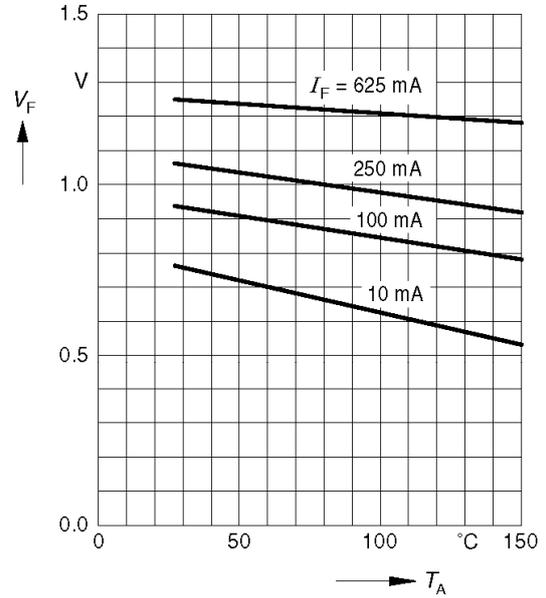
Reverse current $I_R = f(T_A)$

$V_R = 200V$

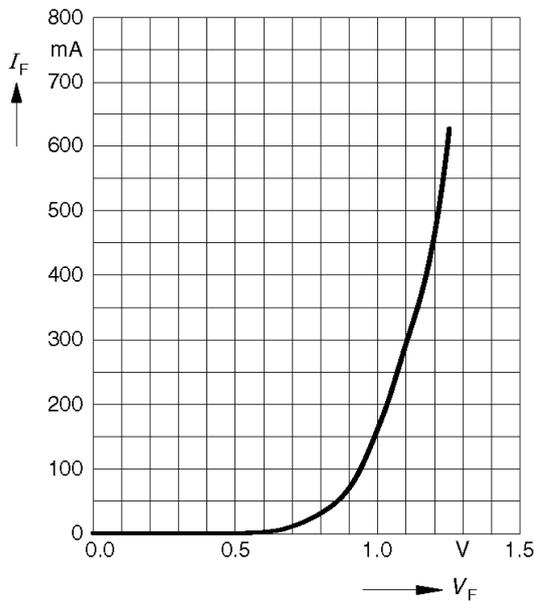


Forward Voltage $V_F = f(T_A)$

$I_F = \text{Parameter}$



Forward current $I_F = f(V_F)$



TOP DYNAMIC



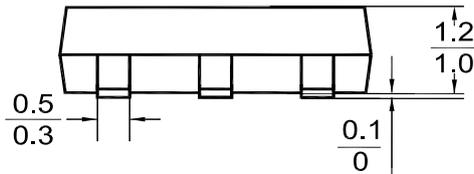
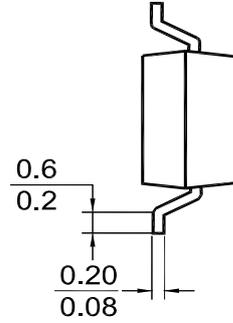
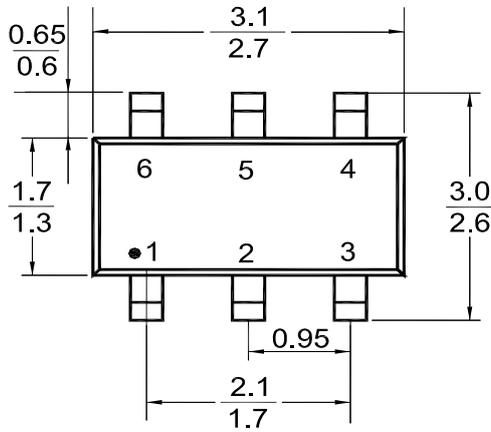
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Dated : 10/10/2016 Rev:01

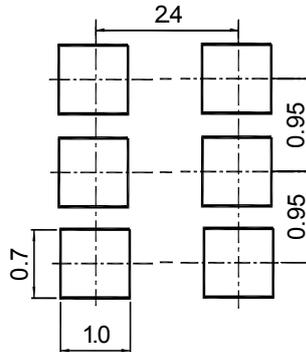
BAS21SD

Package Outline Dimensions (Units: mm)

SOT-26



Recommended Soldering Footprint



Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
SOT-26	8	4 ± 0.1	0.157 ± 0.004	178	7	3,000

TOP DYNAMIC



Dated : 10/10/2016 Rev:01