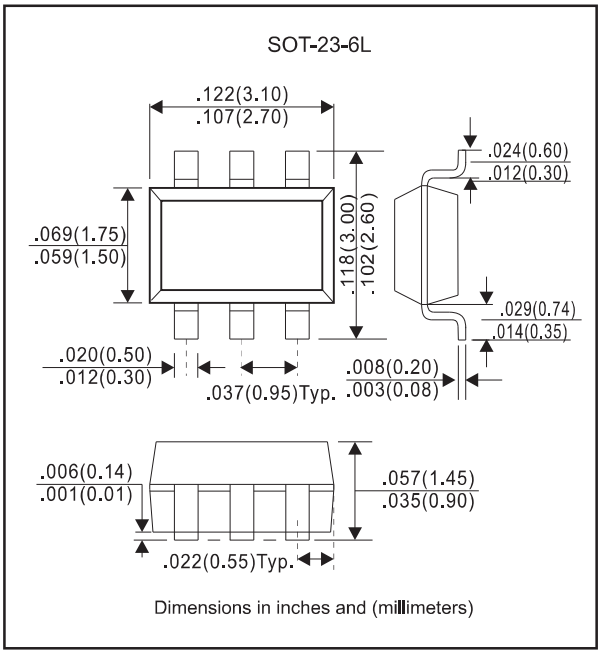
BAS21SF

200mA Surface Mount Switching Diode Array - 200V

Features

- Fast switching speed
- High conductance
- Compliant to Halogen-free

Package outline



Mechanical data

- Epoxy:UL94-V0 rated flame retardant
- Case : Molded plastic, SOT-23-6L
- Terminals : Matte tin-plated leads; solderability-per MIL-STD-202, Method 208
- Mounting Position : Any

Maximum ratings (AT T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	UNIT	VALUE
Repetitive peak reverse voltage	V_{RRM}	V	250
Reverse voltage	V_R	V	200
Average forward current	I_{FAV}	mA	200
Non-repetetive peak forward surge current, t_p =10ms	I_{FSM}	A	2
Power dissipation	P_D	mW	300
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	℃/W	417
Maximum junction temperature	T_j	℃	-55 ~+150
Storage temperature range	T_{stg}	℃	-55 ~+150

Electrical characteristics (AT T_A=25°C unless otherwise noted)

PARAMETER	Symbol	UNIT	Conditions	Min	Max
Breakdown Voltage	V_R	V	I_R=100uA	200	
Forward Voltage	V_F	V	I_F=100mA		1.00
			I_F=200mA		1.25
Reverse Leakage Current	I_R	μA	V_R=200V，T_J =25℃		0.1
			V_R=200V，T_J =150℃		100
Capacitance	Cj	pF	V_R=0V, f=1MHz		5
Reverse Recovery Time	t_{rr}	ns	I_F=I_R=30mA，Irr=3mA,R_L =100Ω		50

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Rating and characteristics curves

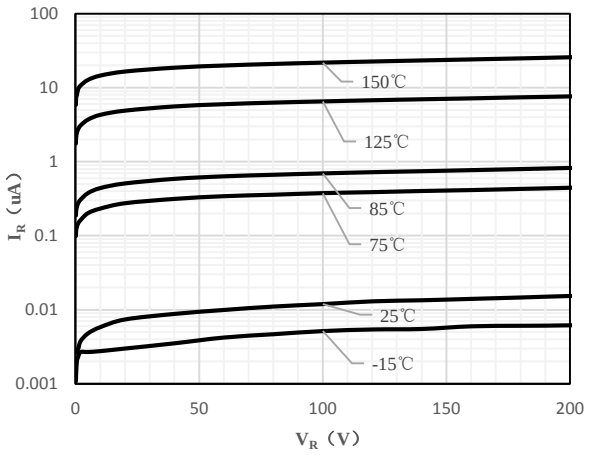

Fig 1 Typical Reverse Characteristic

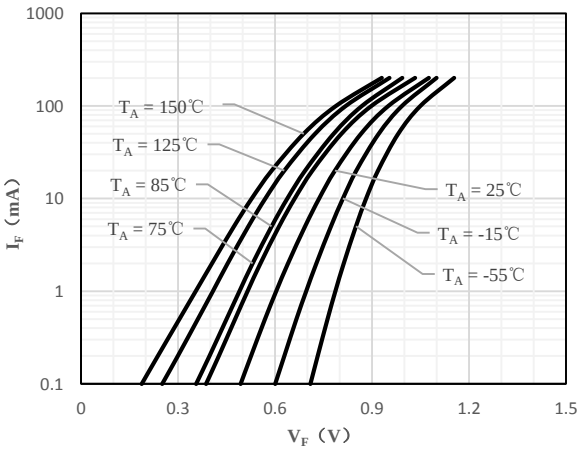

Fig 2 Typical Forward Characteristics

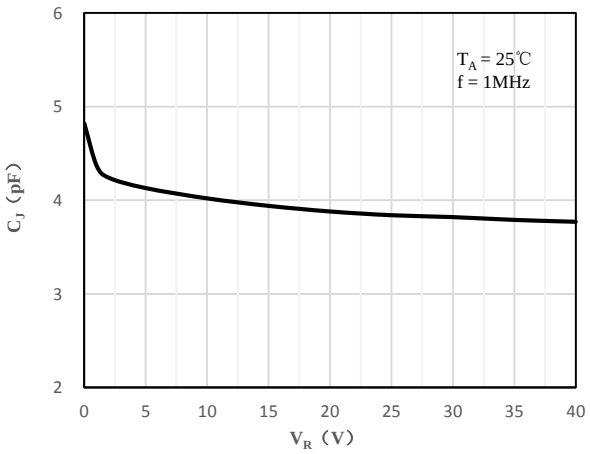

Fig 3 Capacitance vs. Reverse Voltage

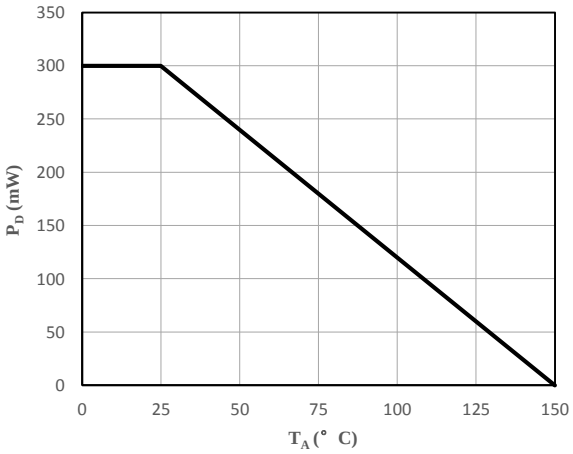

Fig 4 Power Derating Curve

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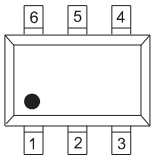
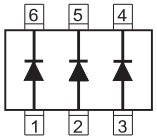
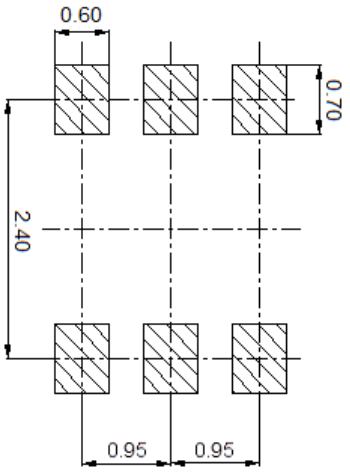
Pinning information

Type number	Marking code	Simplified outline	Symbol
BAS21SF	B5R		

Suggested solder pad layout

SOT-23-6L



Dimensions in inches and (millimeters)