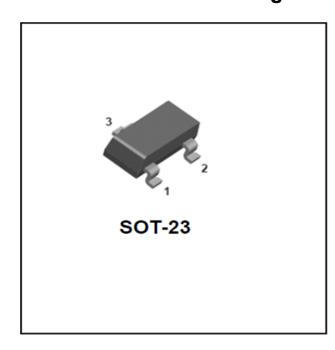




Dual High-voltage Switching Diode



Features

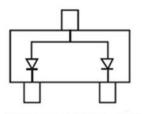
- Epoxy meets UL-94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Fast Switching Speed
- High Conductance
- Part no. with suffix "Q" means AEC-Q101 qualified

Applications

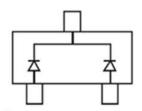
• For General Purpose Switching Applications

Mechanical Data

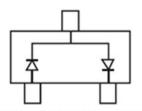
- Case: SOT-23
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102







BAV23CQ Marking: KT6



BAV23SQ Marking: KT31

■Maximum Rating, (Ta=25°C Unless otherwise specified)

Item	Symbol	Unit	Value
Repetitive peak reverse voltage	V_{RRM}	V	250
Forward Continuous Current, Per Leg	I _F	mA	225
Non-Repetitive Peak Forward Surge Current@ tp=10ms,	I _{FSM}	Α	1.7
Power Dissipation	P_D	mW	350
Thermal Resistance from Junction to Ambient	R _{thJA}	°C/W	357
Operation Junction Temperature	TJ	$^{\circ}$	-55 to +150
Storage Temperature	T _{STG}	°C	-55 to +150

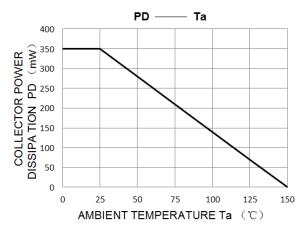
BAV23AQ/CQ/SQ

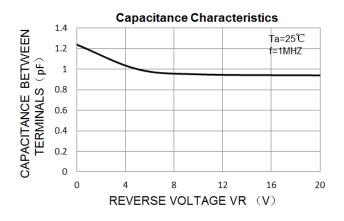
■Ordering Information (Example)

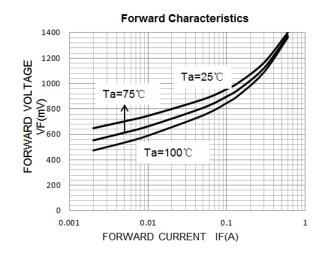
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE	
BAV23AQ/CQ/SQ	F2	Approximate 0.01	3000	30000	120000	7" reel	

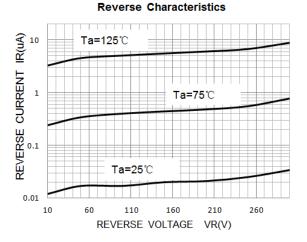
Item	Symbol	Unit	Conditions	Min	Тур	Max
Reverse Voltage	V_{BR}	V	IR=100uA	250		
Fanyard Valtage	V	V	I _{FM} =100mA, T _J =25℃			1
Forward Voltage	V _F	V	I _{FM} =200mA, T _J =25℃			1.25
Reverse Current	I _R	uA	V _R =200V			0.1
Total Capacitance	C _{tot}	pF	f=1.0MHz, V _R =0V			5
Reverse Recovery Time	Trr	ns	I_F = I_R =30mA, V_R =6 V , R_L =100 Ω , I_m =3mA			50

■ Typical Characteristics (Per Leg)



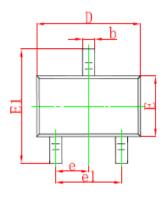


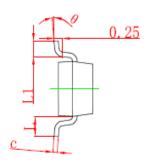


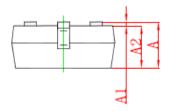




■SOT-23 Package Outline Dimensions

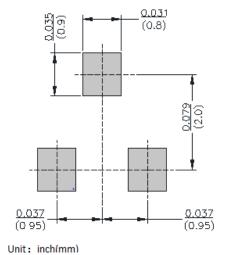






Complete	Dimensions	In Millimeters	Dimensions In Inches		
Symbol	Min	Max	Min	Max	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
E	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.95	Ó TYP	0.03	7TYP	
e1	1.800	2.000	0.071	0.079	
L	0.55	0 REF	0.02	2 REF	
L1	0.300	0.500	0.012	0.020	
Α	U°	8°	U°	8°	

■SOT-23 Suggested Pad Layout





BAV23AQ/CQ/SQ

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