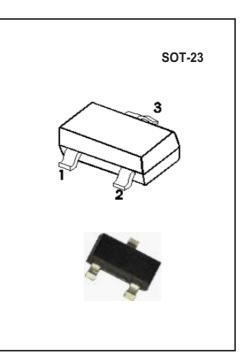


BAV23/A/C/S

Switching Diode

FEATURES * Fast Switching Device (TRR <50nS) * Power Dissipation of 350mW * High Stability and High Reliability * Low reverse leakage MECHANICAL DATA * Case: SOT-23 Small Outline Plastic Package * Epoxy: Device has UL flammability classification 94V-O * Mounting Position: Any BAV23A BAV23C BAV23S 10 1 -4 10 -- 3 -0 3 20 H 2 -20-4 4 MARKING: KT7 MARKING: KT6 MARKING:KL31 KT7 KT6 KL31



MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

RATINGS	SYMBOL	BAV23/A/C/S	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	250	Volts
Maximum RMS Voltage	V _{RMS} 175		Volts
Maximum DC Blocking Voltage	V _{DC}	250	Volts
Power Dissipation	PD	350	mW
Maximum Average Forward Rectified Current	Ι _Ο	225	mA
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	1.7	А
Current Squarad Time	1²t	0.01	A ² S
Typical Thermal Resistance (Note 3)	$R_{\theta JA}$	357	° C/W
Capacitance (Note 2)	CT	5	pF
Operating and Storage Temperature Range	TJ, TSTG	-55 to + 150	٥C

03

ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

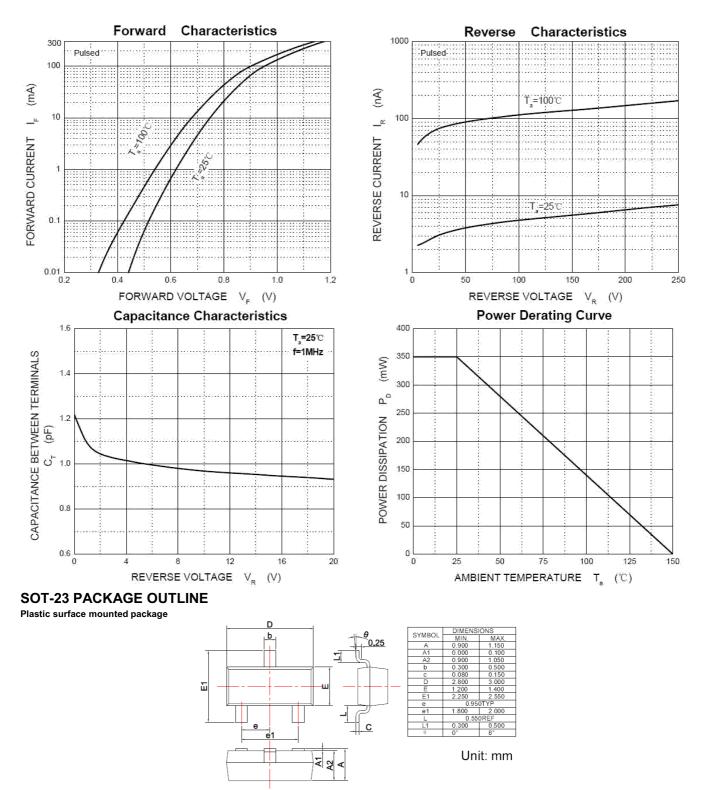
CHARACTERISTICS		SYMBOL	BAV23/A/C/S	UNITS	
Maximum Instantaneous Forward Voltage	I _F = 100mA	VF	1.0	Volts	
	I _F = 200mA		1.25		
Maximum DC Reverse Current at Rated DC Blocking Voltage	@T _A = 25°C	- I _R	0.1	uAmps	
	@T _A = 100°C		100		
Maximum Reverse Recovery Time (Note 1)		trr	50	nSec	

NOTES : 1. Test Conditions: I_F = 0.5A, I_R = -1.0A, I_{RR} = -0.25A 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts. 3. Typical Thermal Resistance : At 9.5mm lead lengths,PCB mounted. 4. "Fully ROHS complaint", "100% Sn plating (Pb-free)"

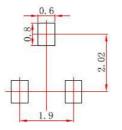
5. "P/N suffix V means AEC-Q101 qualified".

2017-12/8 REV: O

RATING AND CHARACTERISTICS CURVES (BAV23/A/C/S)



Precautions: PCB Design(Recommended land dimensions for SOT-23 diode. Electrode patterns for PCBs)



Note: 1.Controlling dimension: In millimeters. 2.General tolerance: ± 0.05mm. 3.The pad layout is for reference purposes only.



PACKAGING OF DIODE

REEL PACK

PACKAGE	PACKING	REEL	COMPONENT	TAPE SPACE	REEL DIA	CARTON SIZE	EA PER	GROSS
	CODE	(EA)	SPACE(mm)	(mm)	(mm)	(mm)	CARTON	WEIGHT(Kg)
SOT-23/-3L	-T	3,000			178	438*438*220	180,000	

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