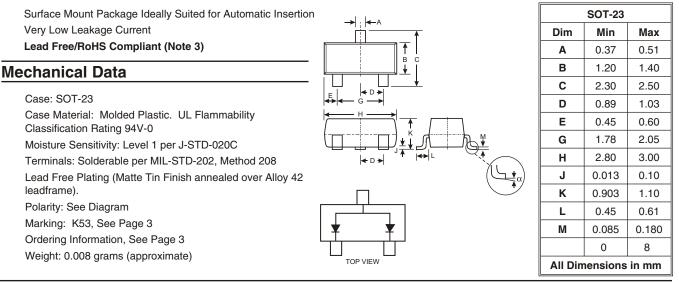




BAW156

DUAL SURFACE MOUNT LOW LEAKAGE DIODE

Features



Maximum Ratings @ T_A = 25 C unless otherwise specified

Characteristic	Symbol	Value	Unit		
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	85	V		
RMS Reverse Voltage	V _{R(RMS)}	60	V		
Forward Continuous Current Single diode (Note 2) Double diode	IFM	160 140	mA		
Repetitive Peak Forward Current (Note 2)	I _{FRM}	500	mA		
Non-Repetitive Peak Forward Surge Current $@$ t = 1.0 s @ t = 1.0ms @ t = 1.0s	IFSM	4.0 1.0 0.5	А		
Power Dissipation (Note 2)	Pd	250	mW		
Thermal Resistance Junction to Ambient Air (Note 2)	R _{JA}	500	C/W		
Operating and Storage Temperature Range	Tj, T _{STG}	-65 to +150	С		

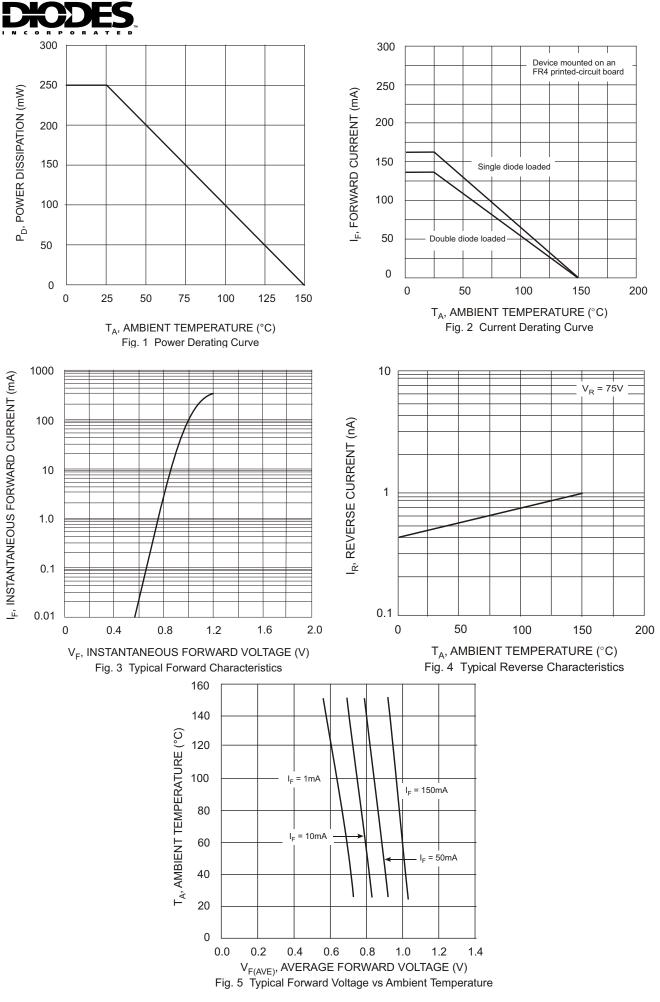
Electrical Characteristics @ TA = 25 C unless otherwise specified

Characteristic	Symbol	Min	Тур	Мах	Unit	Test Condition
Reverse Breakdown Voltage (Note 1)	V _{(BR)R}	85			V	I _R = 100 A
Forward Voltage	V _F			0.90 1.0 1.1 1.25	V	$\begin{array}{l} I_F = 1.0mA\\ I_F = 10mA\\ I_F = 50mA\\ I_F = 150mA \end{array}$
Leakage Current (Note 1)	I _R			5.0 80	nA nA	$V_R = 75V$ $V_R = 75V$, $T_j = 150$ C
Total Capacitance	Ст		3		pF	V _R = 0, f = 1.0MHz
Reverse Recovery Time	t _{rr}			3.0	S	$I_F = I_R = 10mA,$ $I_{rr} = 0.1 \times I_R, R_L = 100$

Notes: 1. Short duration test pulse to minimize self-heating effect.

 Part mounted on FR-4 board with recommended pad layout, which can be found on our website at http://www.diodes.com/datasheets/ap02001.pdf.

3. No purposefully added lead.



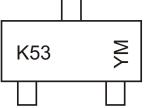


Ordering Information (Note 4)

Device	Packaging	Shipping
BAW156-7-F	SOT-23	3000/Tape & Reel

Notes: 4. For Packaging Details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

Marking Information



 $\begin{array}{l} \mathsf{K53} = \mathsf{Product} \ \mathsf{Type} \ \mathsf{Marking} \ \mathsf{Code} \\ \mathsf{YM} = \mathsf{Date} \ \mathsf{Code} \ \mathsf{Marking} \\ \mathsf{Y} = \mathsf{Year} \ \mathsf{ex} \colon \mathsf{N} = 2002 \\ \mathsf{M} = \mathsf{Month} \ \mathsf{ex} \colon 9 = \mathsf{September} \end{array}$

Date Code Key

Year	199	98 1	999	2000	2001	2002	200	3 2	2004	2005	2006	2007	2008	2009
Code	J		К	L	М	N	P		R	S	Т	U	V	W
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