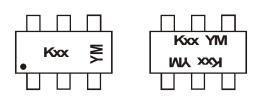


Marking Information



 $\begin{array}{l} \mathsf{Kxx} = \mathsf{Product Type Marking Code} \\ \mathsf{For Symmetrical Configuration, No Orientation Indicator} \\ \mathsf{K75} = \mathsf{BAS70BRW} \\ \mathsf{K74} = \mathsf{BAS70DW-04} \\ \mathsf{K71} = \mathsf{BAS70DW-05} \\ \mathsf{K76} = \mathsf{BAS70DW-06} \\ \mathsf{K73} = \mathsf{BAS70TW} \\ \mathsf{YM} = \mathsf{Date Code Marking} \\ \mathsf{Y} = \mathsf{Year} (\mathsf{ex: D} = \mathsf{2016}) \\ \mathsf{M} = \mathsf{Month} (\mathsf{ex: 9} = \mathsf{September}) \end{array}$

Date Code Key

Year	2016		2017	2018	3	2019	202	20	2021	2022		2023
Code	D		E	F		G	F	1		J		К
Month	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec

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	70	V
RMS Reverse Voltage	V _{R(RMS)}	49	V
Forward Continuous Current (Note 7)	I _{FM}	70	mA
Non-Repetitive Peak Forward Surge Current @ t < 1.0s	I _{FSM}	100	mA

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Power Dissipation (Note 8)	PD	200	mW
Thermal Resistance Junction to Ambient Air (Note 8)	R _{θJA}	625	°C/W
Operating and Storage Temperature Range	TJ Tstg	-55 to +125 -65 to +125	°C

Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

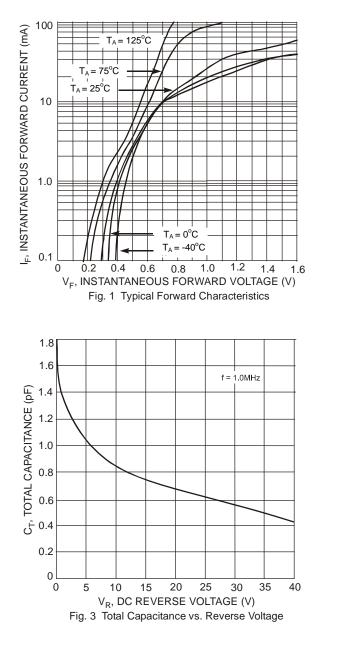
Characteristic	Symbol	Min	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 7)	V _{(BR)R}	70	_	V	I _R = 10μA
Forward Voltage	VF		410 1000	mV mV	t _p <300µs, I _F = 1.0mA t _p <300µs, I _F = 15mA
Reverse Current (Note 7)	I _R	_	100	nA	$t_p < 300 \mu s, V_R = 50 V$
Total Capacitance	CT		2.0	pF	$V_{R} = 0V, f = 1.0MHz$
Reverse Recovery Time	t _{RR}		5.0	ns	$ I_F = I_R = 10 \text{mA to } I_R = 1.0 \text{mA}, $ $ I_{RR} = 0.1 \text{ x } I_R, R_L = 100 \Omega $

Notes:

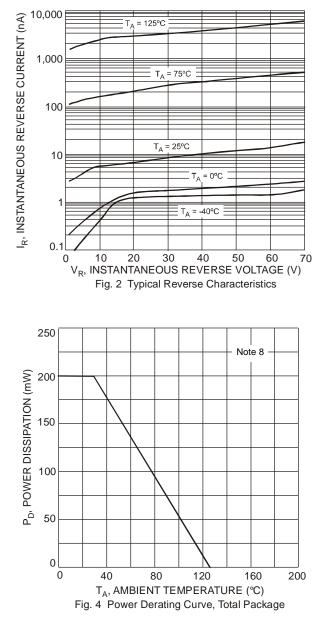
7. Short duration pulse test used to minimize self-heating effect.

8. Part mounted on FR-4 board with recommended pad layout, which can be found on our website at http://www.diodes.com/package-outlines.html.





BAS70TW /DW-04 /DW-05 /DW-06 /BRW

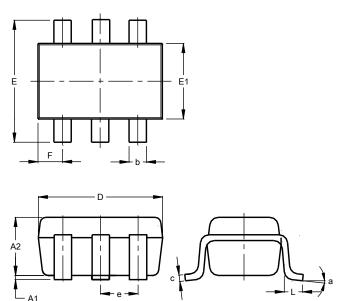


BAS70TW /DW-04 /DW-05 /DW-06 /BRW Document Number: DS30158 Rev. 14 - 2 Downloaded from Arrow.com.



Package Outline Dimensions

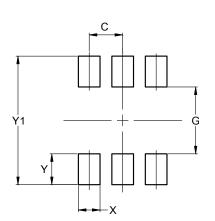
Please see http://www.diodes.com/package-outlines.html for the latest version.



SOT363							
Dim	Min	Max	Тур				
A1	0.00	0.10	0.05				
A2	0.90	1.00	1.00				
b	0.10	0.30	0.25				
С	0.10	0.22	0.11				
D	1.80	2.20	2.15				
Е	2.00	2.20	2.10				
E1	1.15	1.35	1.30				
е	0.650 BSC						
F	0.40	0.45	0.425				
L	0.25	0.40	0.30				
а	0°	8°					
All	All Dimensions in mm						

Suggested Pad Layout

Please see http://www.diodes.com/package-outlines.html for the latest version.



Dimensions	Value (in mm)
С	0.650
G	1.300
Х	0.420
Y	0.600
Y1	2.500

SOT363

SOT363

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