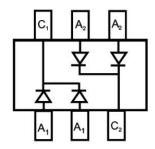
Surface Mount Fast Switching Diode





Features:

- · Fast Switching Speed
- · For General Purpose Switching Application
- Ultra-Small Surface Mount Package
- · High Conductance
- Two "BAV70" Circuits in One Package



Applications:

For general purpose switching application

SOT-363

Max. Rating @ TA = 25°C unless otherwise specified

Parameter	Symbol	Limits	Unit
Peak repetitive reverse voltage Working peak reverse voltage DC reverse voltage	Vrrm Vrms Vr	75	V
RMS reverse voltage	VR(RMS)	53	V
Forward continuous current	lғм	300	mA
Non-repetitive peak forward surge current @t = 1µs @t = 1s		2 1	А
Average rectified output current	lo	150	mA
Power dissipation	Po	200	mW
Thermal resistance, junction to ambient	RθJA	625	°C/W
Operating and storage temperature range	Т _{ј,} Тѕтс	-65 to +150	°C

Electrical Characteristics @ TA = 25°C unless otherwise specified

Parameter	Symbol	Conditions	Min.	Max.	Unit
Reverse breakdown voltage	V(BR)R	IR = 100μA	75	-	V
Forward voltage	VF	IF = 1mA IF = 10mA IF = 50mA IF = 150mA	-	0.715 0.855 1 1.25	V
Junction capacitance	Сл	V _R = 0V, f = 1MHz	-	2	pF
Reverse recovery time	trr	$I_F = I_R = 10 \text{mA},$ $I_{TT} = 0.1 \times I_R, R_L = 100 \Omega$	-	3	ns

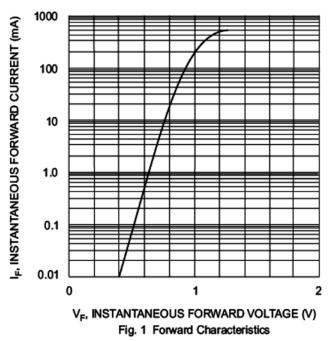
www.element14.com www.farnell.com www.newark.com

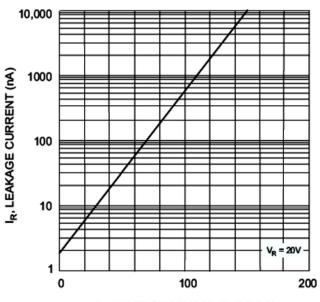


Surface Mount Fast Switching Diode



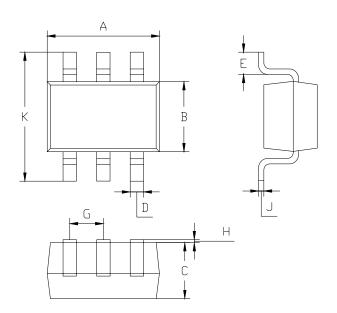
Typical Characteristics @ TA = 25°C unless otherwise specified





 $\label{eq:total_total_total} \textbf{T}_{j}, \text{JUNCTION TEMPERATURE (°C)} \\ \text{Fig. 2 Leakage Current vs Junction Temperature} \\$

Plastic surface mounted package



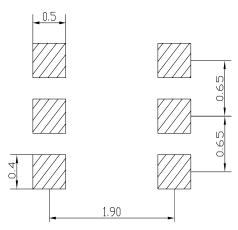
SOT-363			
Dim	Min	Max	
Α	1.8	2.2	
В	1.15	1.35	
С	1 Typical		
D	0.10	0.3	
E	0.25	0.4	
G	0.65Typical		
Н	0.02	0.1	
J	0.1Typical		
К	2.1	2.3	
All Dimensions in mm			



Surface Mount Fast Switching Diode



Soldering Footprint



Package Information

Device	Package	Shipping
BAV70DW-7-F	SOT-363	3,000 / Tape & Reel

Unit: mm

Part Number Table

Description	Part Number	
Surface Mount Fast Switching Diode	BAV70DW-7-F	

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