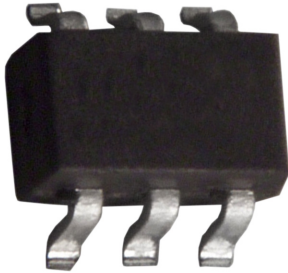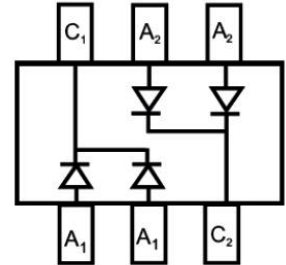# Surface Mount
Fast Switching Diode

multicomp PRO

Features:

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

SOT-363

Applications:

For general purpose switching application

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

Parameter	Symbol	Limits	Unit
Peak repetitive reverse voltage Working peak reverse voltage DC reverse voltage	V_{RRM} V_{RMS} V_R	75	V
RMS reverse voltage	$V_{R(RMS)}$	53	V
Forward continuous current	I_{FM}	300	mA
Non-repetitive peak forward surge current @t = 1µs @t = 1s		2 1	A
Average rectified output current	I_O	150	mA
Power dissipation	P_D	200	mW
Thermal resistance, junction to ambient	$R_{\theta JA}$	625	°C/W
Operating and storage temperature range	T_j, T_{STG}	-65 to +150	°C

Electrical Characteristics @ T_A = 25°C unless otherwise specified

Parameter	Symbol	Conditions	Min.	Max.	Unit
Reverse breakdown voltage	$V_{(BR)R}$	I_R = 100µA	75	-	V
Forward voltage	V_F	I_F = 1mA I_F = 10mA I_F = 50mA I_F = 150mA	-	0.715 0.855 1 1.25	V
Junction capacitance	C_J	V_R = 0V, f = 1MHz	-	2	pF
Reverse recovery time	trr	I_F = I_R = 10mA, Irr = 0.1 × I_R, R_L = 100Ω	-	3	ns

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Surface Mount
Fast Switching Diode

Typical Characteristics @ T_A = 25°C unless otherwise specified
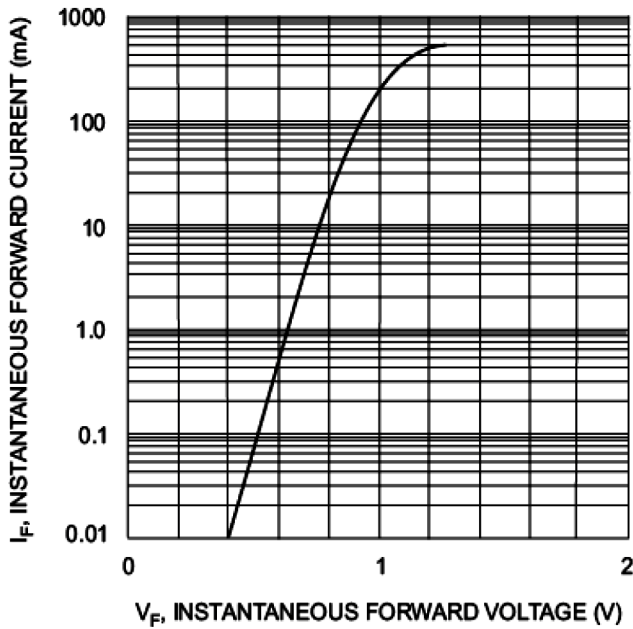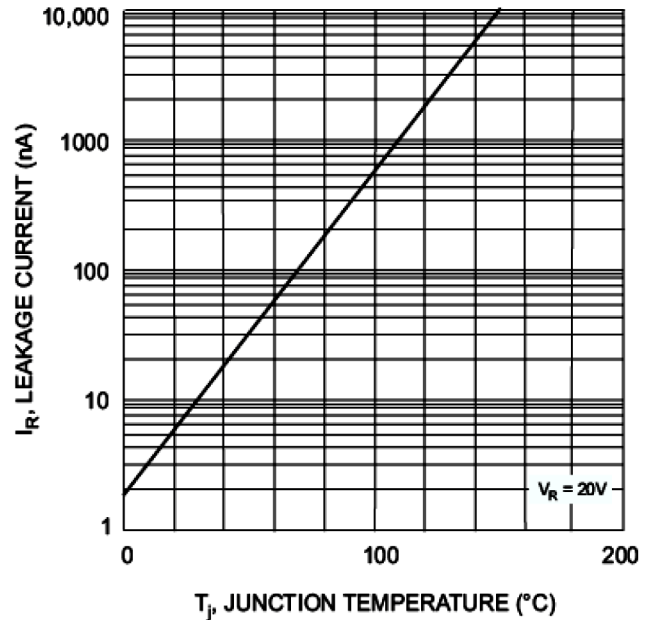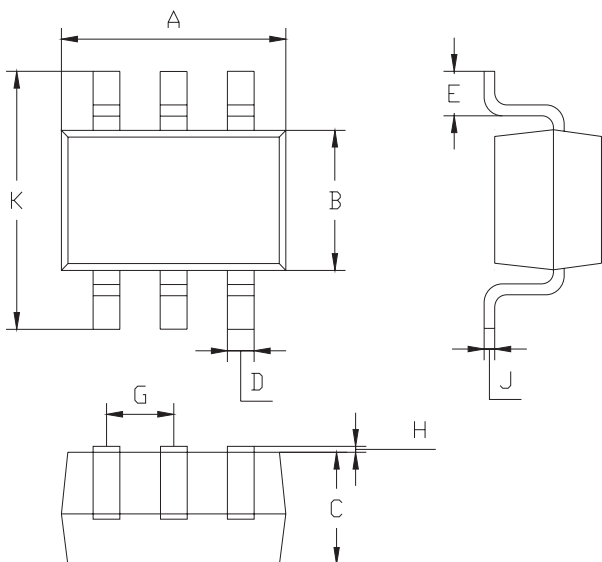

Fig. 1 Forward Characteristics

Fig. 2 Leakage Current vs Junction Temperature

Plastic surface mounted package

SOT-363		
Dim	Min	Max
A	1.8	2.2
B	1.15	1.35
C	1 Typical	
D	0.10	0.3
E	0.25	0.4
G	0.65Typical	
H	0.02	0.1
J	0.1Typical	
K	2.1	2.3
All Dimensions in mm		

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Soldering Footprint

Unit : mm

Package Information

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

Part Number Table

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

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