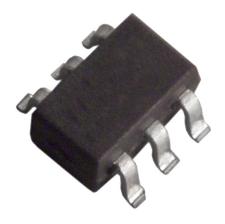
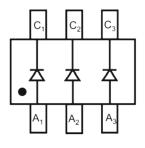
Surface Mount Fast Switching Diode







SOT-363

Features:

- · Fast Switching Speed
- · For General Purpose Switching Application
- · Ultra-Small Surface Mount Package
- · High Conductance

Applications:

· For general purpose switching application

Maximum Ratings:

TA = 25°C unless otherwise specified.

Characteristic	Symbol	Value	Unit
Non-repetitive peak reverse Voltage	V _{RM}	100	V
Peak repetitive reverse Voltage Working peak reverse voltage DC reverse voltage	Vrrm Vrwm Vr	75	V
Forward continuous current	Іғм	300	mA
Average rectified output current	lo	150	mA
Non-Repetitive peak forward surge current at t=1µs at t=1s	IFSM	2 1	А
Power dissipation	PD	200	mW
Thermal resistance, junction to ambient	Reja	625	°C/W
Junction and storage temperature	Tj,Tstg	-65 to +150	°C



Surface Mount Fast Switching Diode



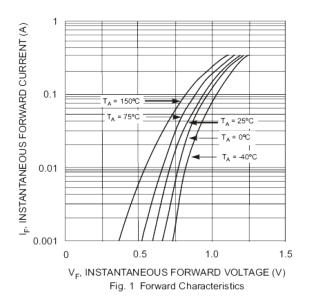
Electrical Characteristics:

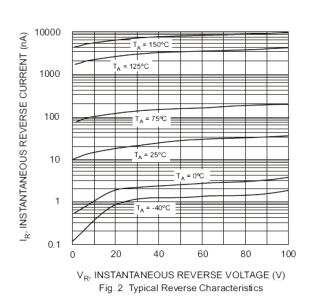
T_A=25°C unless otherwise specified.

Parameter	Symbol	Test conditions	Min.	Max.	Unit
Reverse breakdown voltage	V(BR)R	I _R =1μA	75	-	V
Forward voltage	VF	IF=1mA IF=10mA IF=50mA IF=150mA	-	0.715 0.855 1 1.25	V
Total Capacitance	Ст	Vcb=10V, f=1MHz, IE=0	-	2	pF
Reverse Recovery time	trr	I _F =I _R =10mA, I _{rr} =0.1 × I _R ,R _L =100Ω	-	4	ns

Typical Characteristics:

T_A = 25°C unless otherwise specified.

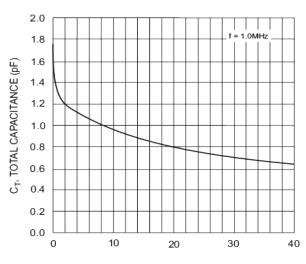




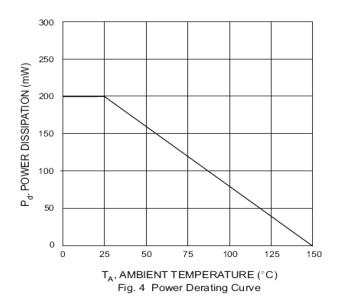


Surface Mount Fast Switching Diode

multicomp PRO

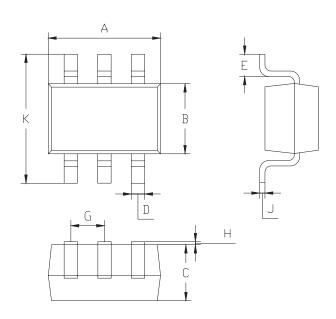


 $\label{eq:VR} {\rm V_R,REVERSE\ VOLTAGE\ (V)}$ Fig. 3 Typical Capacitance vs. Reverse Voltage



Package Outline:

Plastic surface mounted package



SOT-363			
Dim.	Min.	Max.	
А	1.8	2.2	
В	1.15	1.35	
С	1 Typ.		
D	0.1	0.3	
E	0.25	0.4	
G	0.65 Typ.		
Н	0.02	0.1	
J	0.1 Typ.		
K	2.1	2.3	

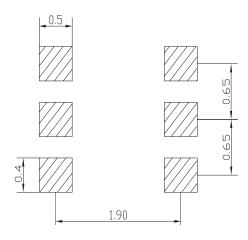
Dimensions: Millimetres



Surface Mount Fast Switching Diode



Soldering Footprint:



Dimensions: Millimetres

Package Information:

Device	Package	Shipping
BAS16TW-7-F	SOT-363	3,000 / Tape & Reel

Part Number Table

Description	Part Number	
Surface Mount Fast Switching Diode	BAS16TW-7-F	

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