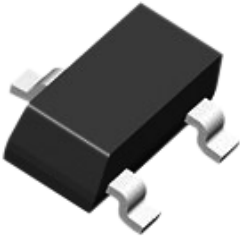


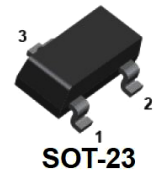
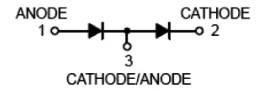
# Surface Mount Switching Diode

**multicomp** PRO



## Features:

- For High-Speed Switching Application
- Connected In Series



## Applications:

High speed switching application

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

Parameter	Symbol	Limits	Unit
Non-Repetitive peak reverse voltage	$V_{RM}$	100	V
DC reverse voltage	$V_R$	100	V
Forward current	$I_F$	200	mA
Forward surge current @t = 1μs	$I_{FS}$	4.5	A
Power dissipation	$P_D$	330	mW
Operating junction temperature range	$T_j$	150	°C
Operating and storage temperature range	$T_{STG}$	-65 to +150	°C

## Electrical Characteristics @ TA = 25°C unless otherwise specified

Parameter	Symbol	Conditions	Min.	Max.	Unit
Reverse breakdown voltage	$V_{R(BR)}$	$I_R = 100\mu A$	100	-	V
Forward voltage	$V_F$	$I_F = 5mA$ $I_F = 10mA$ $I_F = 100mA$	0.55 0.67 0.75	0.7 0.82 1.1	V
Reverse leakage current	$I_R$	$V_R = 50V$ $V_R = 100V$	-	300 500	nA
Diode capacitance	$C_D$	$V_R = 0V, f = 1MHz$	-	2	pF
Reverse recovery time	$t_{rr}$	$I_F = I_R = 10mA$ $R_L = 100\Omega$	-	15	ns

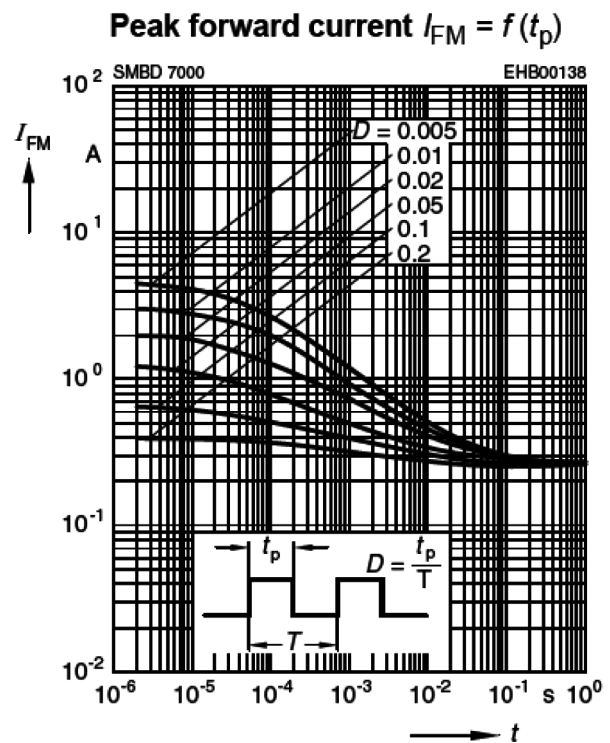
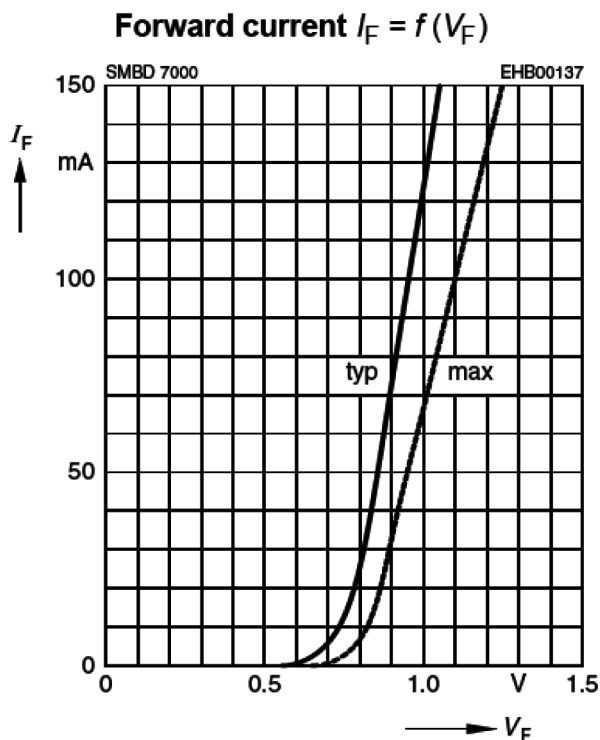
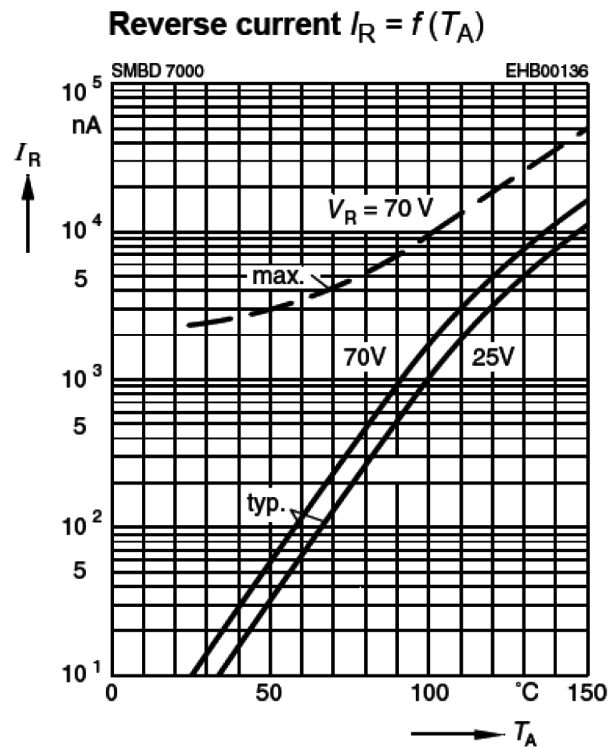
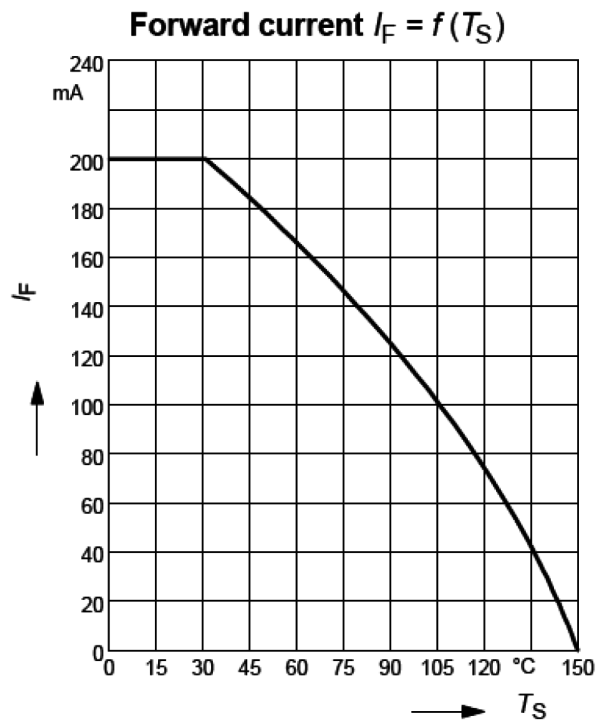
Newark.com/multicomp-pro  
Farnell.com/multicomp-pro  
Element14.com/multicomp-pro

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# Surface Mount Switching Diode

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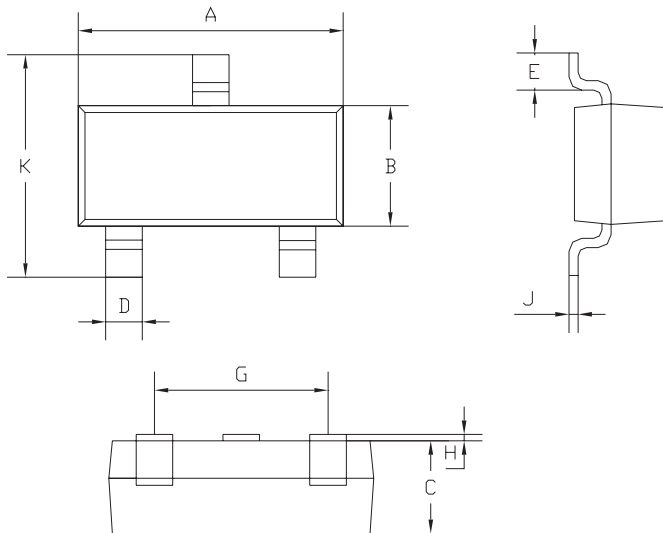
Typical Characteristics @  $T_A = 25^\circ\text{C}$  unless otherwise specified



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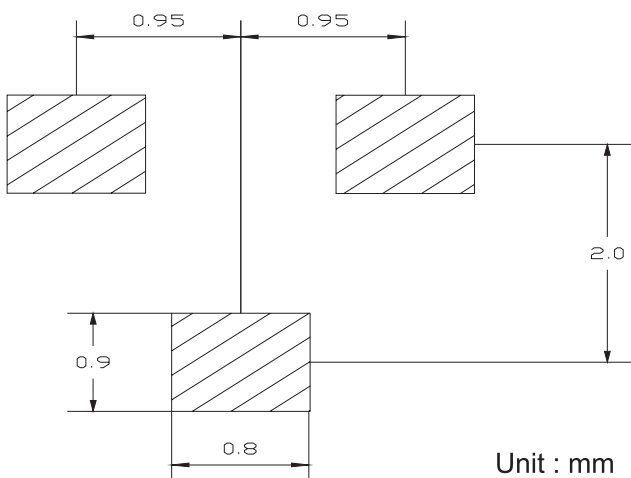
# Surface Mount Switching Diode

## Plastic surface mounted package



SOT-23		
Dim	Min	Max
A	2.85	2.95
B	1.25	1.35
C	1 Typical	
D	0.37	0.43
E	0.35	0.48
G	1.85	1.95
H	0.02	0.1
J	0.1 Typical	
K	2.35	2.45
All Dimensions in mm		

## Soldering Footprint



Unit : mm

## Package Information

Device	Package	Shipping
MMBD7000-7-F	SOT-23	3,000 / Tape & Reel

## Part Number Table

Description	Part Number
Surface Mount Switching Diode	MMBD7000-7-F

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