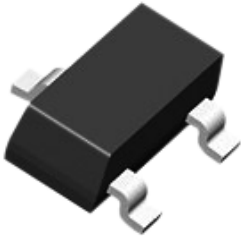
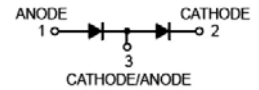


Surface Mount Switching Diode



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

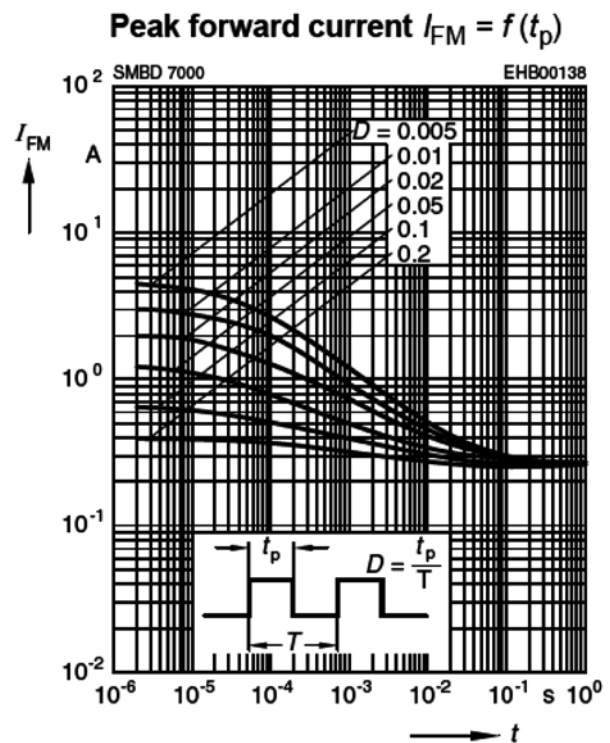
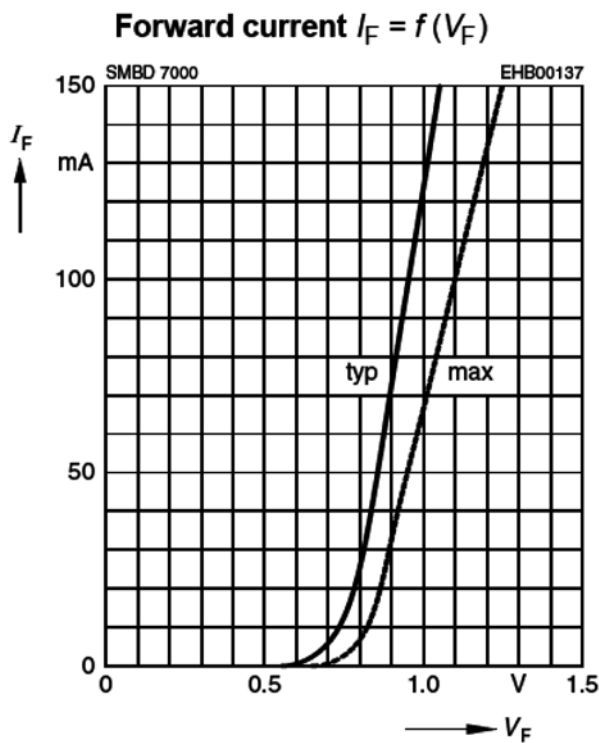
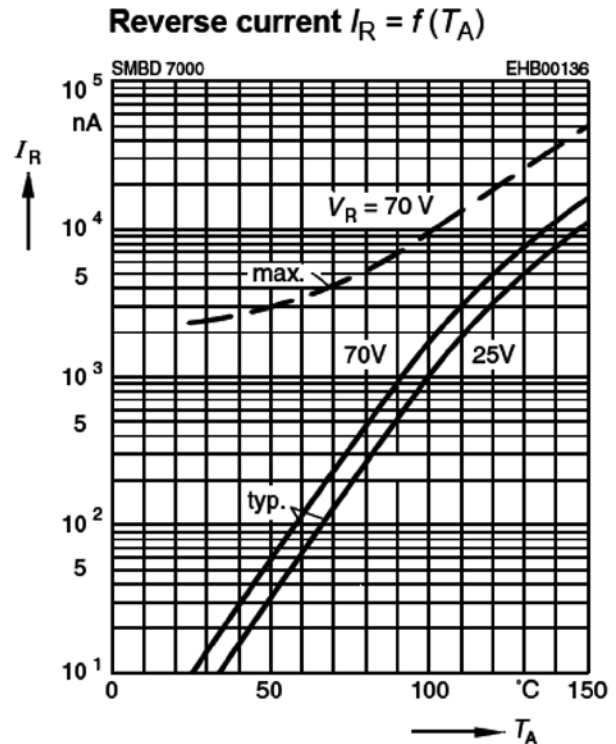
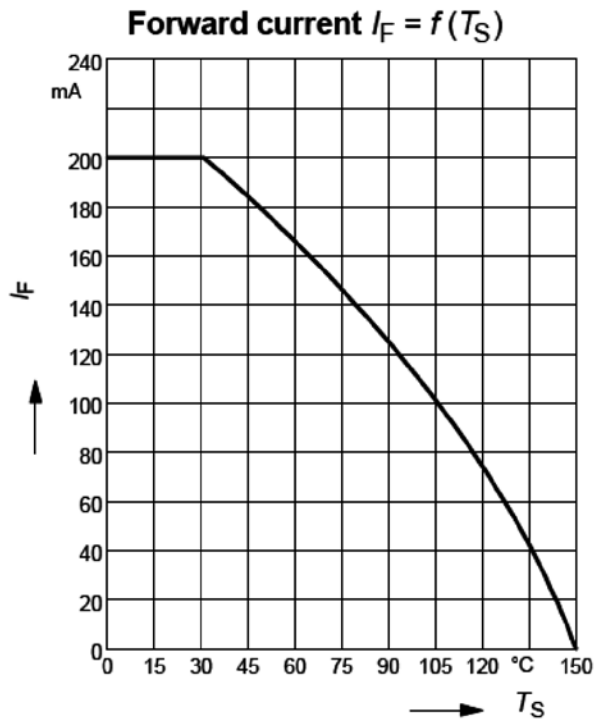
Electrical Characteristics @ TA = 25°C unless otherwise specified

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

Surface Mount Switching Diode



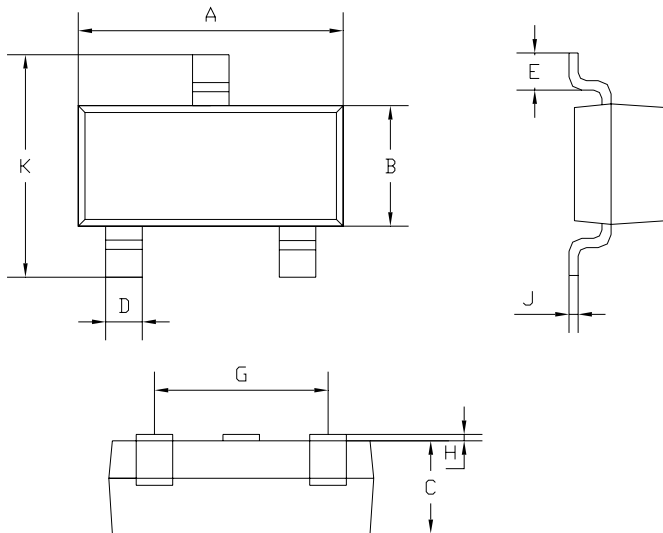
Typical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified



Surface Mount Switching Diode

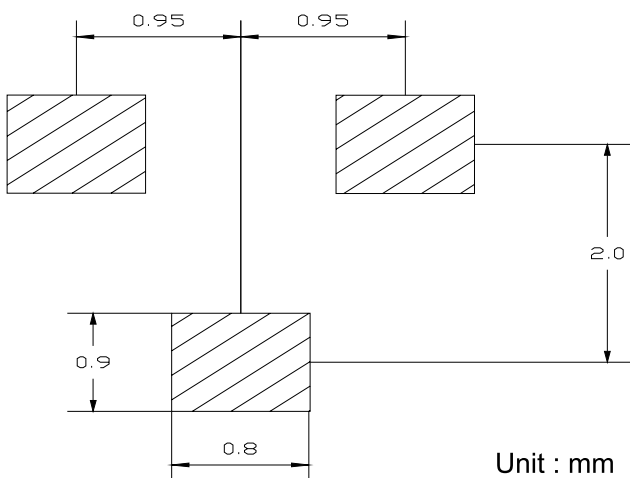


Plastic surface mounted package



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



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

Important Notice : This data sheet and its contents (the "Information") belong to the members of the Premier Farnell group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp is the registered trademark of the Group. © Premier Farnell plc 2012.

