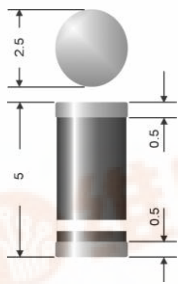


SMS 120...SMS 1100



Surface mount diode

Schottky barrier rectifiers diodes

SMS 120...SMS 1100

Forward Current: 1 A

Reverse Voltage: 20 to 100 V

Features

- Max. solder temperature: 260°C
- Plastic material has UL classification 94V-0

Mechanical Data

- Plastic case Melf / DO-213AB
- Weight approx.: 0,12 g
- Terminals: plated terminals solderable per MIL-STD-750
- Mounting position: any
- Standard packaging: 5000 pieces per reel

- Max. temperature of the terminals $T_T = 100^\circ\text{C}$
- $I_F = 1\text{ A}$, $T_J = 25^\circ\text{C}$
- $T_A = 25^\circ\text{C}$
- Mounted on P.C. board with 25 mm² copper pads at each terminal

Type	Polarity color band	Repetitive peak reverse voltage V_{RRM} V	Surge peak reverse voltage V_{RSM} V	Maximum forward voltage $T_J = 25^\circ\text{C}$ $I_F = 1\text{ A}$ $V_F^{2)}$ V	Maximum reverse recovery time $I_F = -\text{A}$ $I_R = -\text{A}$ $I_{RR} = -\text{A}$ t_{rr} ns
SMS 120	-	20	20	0,5	-
SMS 130	-	30	30	0,5	-
SMS 140	-	40	40	0,5	-
SMS 150	-	50	50	0,7	-
SMS 160	-	60	60	0,7	-
SMS 190	-	90	90	0,79	-
SMS 1100	-	100	100	0,79	-

Absolute Maximum Ratings

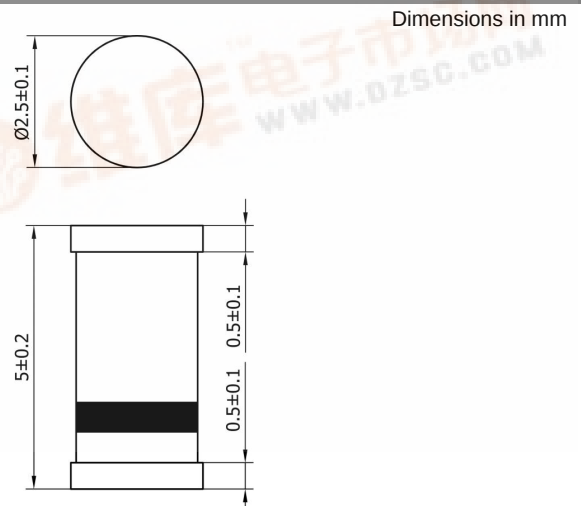
$T_C = 25^\circ\text{C}$, unless otherwise specified

Symbol	Conditions	Values	Units
I_{FAV}	Max. averaged fwd. current, R-load, $T_T = 100^\circ\text{C}$	1	A
I_{FRM}	Repetitive peak forward current $f > 15\text{ Hz}^1)$	10	A
I_{FSM}	Peak fwd. surge current 50 Hz half sinus-wave ³⁾	30	A
I^2t	Rating for fusing, $t < 10\text{ ms}^3)$	4,5	A ² s
R_{thA}	Max. thermal resistance junction to ambient ⁴⁾	45	K/W
R_{thT}	Max. thermal resistance junction to terminals	10	K/W
T_J	Operating junction temperature	-50...+150	°C
T_s	Storage temperature	-50...+150	°C

Characteristics

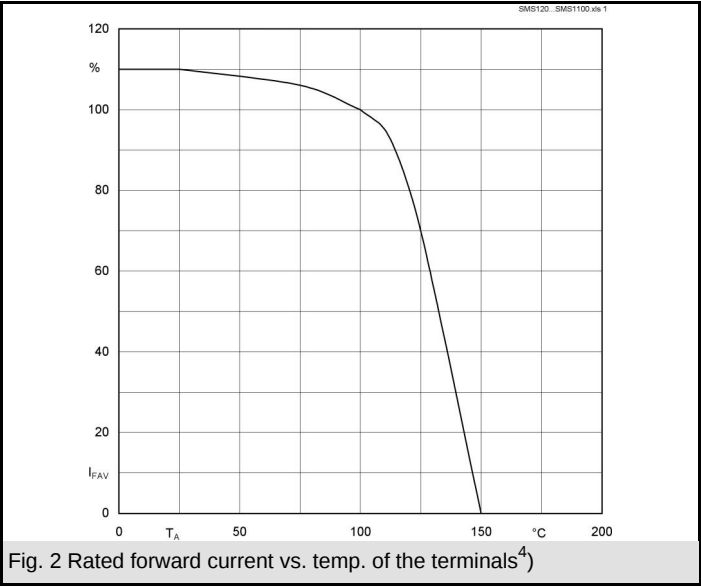
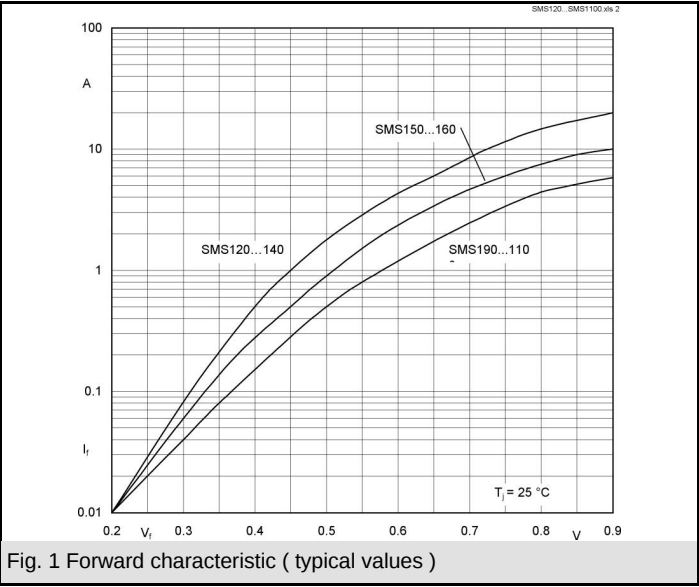
$T_C = 25^\circ\text{C}$, unless otherwise specified

Symbol	Conditions	Values	Units
I_R	Maximum leakage current, $T_J = 25^\circ\text{C}$; $V_R = V_{RRM}$ $T_J = 100^\circ\text{C}$; $V_R = V_{RRM}$	<0.5 <5.0	mA mA
C_J	Typical junction capacitance (at MHz and applied reverse voltage of V)	-	pF
Q_{rr}	Reverse recovery charge ($U_R = V$; $I_F = A$; $dI_F/dt = A/ms$)	-	μC
E_{RSM}	Non repetitive peak reverse avalanche energy ($I_R = \text{mA}$; $T_J = ^\circ\text{C}$; inductive load switched off)	-	mJ



case: Melf / DO-213AB

SMS 120...SMS 1100



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