

Surface mount diode

Schottky barrier rectifiers diodes

SK 32...SK 310

Forward Current: 3 A

Reverse Voltage: 20 to 100 V

Features

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

Mechanical Data

- Plastic case SMC / DO-214AB
- Weight approx.: 0,21 g
- Terminals: plated terminals solderable per MIL-STD-750
- Mounting position: any
- Standard packaging: 3000 pieces per reel

1) Max. temperature of the terminals $T_T = 100\text{ °C}$

2) $I_F = 3\text{ A}$, $T_J = 25\text{ °C}$

3) $T_A = 25\text{ °C}$

4) Mounted on P.C. board with 50 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 $T_J = 25\text{ °C}$ $I_F = 3\text{ A}$ $V_F^{(2)}$ V	Maximum reverse recovery time $I_F = -\text{A}$ $I_R = -\text{A}$ $I_{RR} = -\text{A}$ t_{rr} ns
SK 32	-	20	20	0,5	-
SK 33	-	30	30	0,5	-
SK 34	-	40	40	0,5	-
SK 35	-	50	50	0,75	-
SK 36	-	60	60	0,75	-
SK 38	-	80	80	0,85	-
SK 310	-	100	100	0,85	-

Absolute Maximum Ratings

$T_A = 25\text{ °C}$, unless otherwise specified

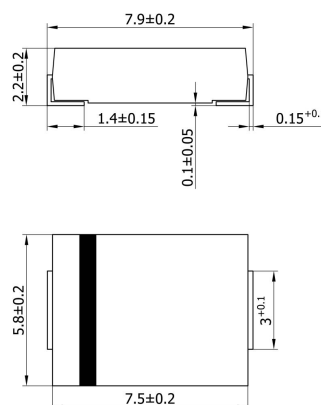
Symbol	Conditions	Values	Units
I_{FAV}	Max. averaged fwd. current, R-load, $T_T = 100\text{ °C}$	3	A
I_{FRM}	Repetitive peak forward current $f > 15\text{ Hz}^1)$	20	A
I_{FSM}	Peak fwd. surge current 50 Hz half sinus-wave ³⁾	100	A
I^2t	Rating for fusing, $t < 10\text{ ms}^3)$	50	A ² s
R_{thA}	Max. thermal resistance junction to ambient ⁴⁾	50	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

$T_A = 25\text{ °C}$, unless otherwise specified

Symbol	Conditions	Values	Units
I_R	Maximum leakage current, $T_J = 25\text{ °C}$; $V_R = V_{RRM}$	<0,5	mA
	$T_J = 100\text{ °C}$; $V_R = V_{RRM}$	<20,0	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 ($L = mH$; $T_J = \text{°C}$; inductive load switched off)	-	mJ

Dimensions in mm



case: SMC / DO-214AB

