

## Silicon Standard Recovery Diode

**$V_{RRM} = 50 \text{ V - } 1200 \text{ V}$**   
 **$I_F = 25 \text{ A}$**

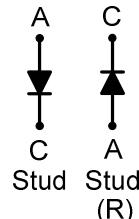
### Features

- High Surge Capability
- Types up to 1200 V  $V_{RRM}$

**DO-4 Package**

### Note:

1. Standard polarity: Stud is cathode.
2. Reverse polarity (R): Stud is anode.
3. Stud is base.



**Maximum ratings, at  $T_j = 25^\circ\text{C}$ , unless otherwise specified ("R" devices have leads reversed)**

Parameter	Symbol	Conditions	S25K (R)	S25M (R)	S25Q (R)	Unit
Repetitive peak reverse voltage	$V_{RRM}$		800	1000	1200	V
RMS reverse voltage	$V_{RMS}$		560	700	840	V
DC blocking voltage	$V_{DC}$		800	1000	1200	V
Continuous forward current	$I_F$	$T_C \leq 120^\circ\text{C}$	25	25	25	A
Surge non-repetitive forward current, Half Sine Wave	$I_{F,SM}$	$T_C = 25^\circ\text{C}, t_p = 8.3 \text{ ms}$	373	373	373	A
Operating temperature	$T_j$		-65 to 175	-65 to 175	-65 to 175	$^\circ\text{C}$
Storage temperature	$T_{stg}$		-65 to 200	-65 to 200	-65 to 200	$^\circ\text{C}$

**Electrical characteristics, at  $T_j = 25^\circ\text{C}$ , unless otherwise specified**

Parameter	Symbol	Conditions	S25K (R)	S25M (R)	S25Q (R)	Unit
Diode forward voltage	$V_F$	$I_F = 25 \text{ A}, T_j = 25^\circ\text{C}$	1.1	1.1	1.1	V
Reverse current	$I_R$	$V_R = 50 \text{ V}, T_j = 25^\circ\text{C}$ $V_R = 50 \text{ V}, T_j = 175^\circ\text{C}$	10 12	10 12	10 12	$\mu\text{A}$ mA

### Thermal characteristics

Thermal resistance, junction - case	$R_{thJC}$	2.50	2.50	2.50	$^\circ\text{C/W}$
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