

Silicon Standard Recovery Diode

$V_{RRM} = 50 \text{ V - } 1200 \text{ V}$
 $I_F = 16 \text{ A}$

Features

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

DO-4 Package



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

Parameter	Symbol	Conditions	S16B (R)	S16D (R)	S16G (R)	S16J (R)	Unit
Repetitive peak reverse voltage	V_{RRM}		100	200	400	600	V
RMS reverse voltage	V_{RMS}		70	140	280	420	V
DC blocking voltage	V_{DC}		100	200	400	600	V
Continuous forward current	I_F	$T_C \leq 140^\circ\text{C}$	16	16	16	16	A
Surge non-repetitive forward current, Half Sine Wave	$I_{F,SM}$	$T_C = 25^\circ\text{C}, t_p = 8.3 \text{ ms}$	370	370	370	370	A
Operating temperature	T_j		-65 to 175	-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	-65 to 200	$^\circ\text{C}$

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

Parameter	Symbol	Conditions	S16B (R)	S16D (R)	S16G (R)	S16J (R)	Unit
Diode forward voltage	V_F	$I_F = 16 \text{ A}, T_j = 25^\circ\text{C}$	1.1	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	10	10	10	μA
Thermal characteristics							
Thermal resistance, junction - case	R_{thJC}		2.50	2.50	2.50	2.50	$^\circ\text{C/W}$

