

Silicon Standard Recovery Diode

$V_{RRM} = 50 \text{ V} - 600 \text{ V}$

$I_F = 60 \text{ A}$

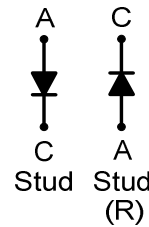
Features

- High Surge Capability
- Types up to 600 V V_{RRM}

DO-5 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

Parameter	Symbol	Conditions	1N2133A(R)	1N2135A(R)	1N2137A(R)	1N2138A(R)	Unit
Repetitive peak reverse voltage	V_{RRM}		300	400	500	600	V
RMS reverse voltage	V_{RMS}		210	280	350	420	V
DC blocking voltage	V_{DC}		50	100	150	200	V
Continuous forward current	I_F	$T_C \leq 150^\circ\text{C}$	60	60	60	60	A
Surge non-repetitive forward current, Half Sine Wave	$I_{F,SM}$	$T_C = 25^\circ\text{C}$, $t_p = 8.3 \text{ ms}$	1050	1050	1050	1050	A
Operating temperature	T_j		-65 to 200	-65 to 200	-65 to 200	-65 to 200	$^\circ\text{C}$
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	1N2133A(R)	1N2135A(R)	1N2137A(R)	1N2138A(R)	Unit
Diode forward voltage	V_F	$I_F = 60 \text{ A}$, $T_j = 25^\circ\text{C}$	1.1	1.1	1.1	1.1	V
Reverse current	I_R	$V_R = 50 \text{ V}$, $T_j = 25^\circ\text{C}$	10	10	10	10	μA
		$V_R = 50 \text{ V}$, $T_j = 150^\circ\text{C}$	15	15	15	15	mA

Thermal characteristics

Thermal resistance, junction - case	R_{thJC}		0.65	0.65	0.65	0.65	$^\circ\text{C/W}$
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Figure .1-Typical Forward Characteristics

