



Silicon Super Fast Recovery Diode

MUR2540 thru MUR2560R

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

$I_F = 25\text{ A}$

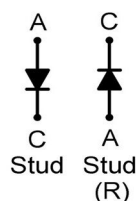
Features

- High Surge Capability
- Types up to 600 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 $T_j = 25\text{ °C}$, unless otherwise specified ("R" devices have leads reversed)

Parameter	Symbol	Conditions	MUR2540 (R)	MUR2560 (R)	Unit
Repetitive peak reverse voltage	V_{RRM}		400	600	V
RMS reverse voltage	V_{RMS}		280	420	V
DC blocking voltage	V_{DC}		400	600	V
Continuous forward current	I_F	$T_C \leq 145\text{ °C}$	25	25	A
Surge non-repetitive forward current, Half Sine Wave	$I_{F,SM}$	$T_C = 25\text{ °C}$, $t_p = 8.3\text{ ms}$	500	500	A
Operating temperature	T_j		-65 to 175	-65 to 175	°C
Storage temperature	T_{stg}		-65 to 175	-65 to 175	°C

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

Parameter	Symbol	Conditions	MUR2540 (R)	MUR2560 (R)	Unit
Diode forward voltage	V _F	I _F = 25 A, T _j = 25 °C	1.3	1.7	V
Reverse current	I _R	V _R = 50 V, T _j = 25 °C	10	10	μA
		V _R = 50 V, T _j = 125 °C	3	3	mA
Recovery Time					
Maximum reverse recovery time	T _{RR}	I _F =0.5 A, I _R =1.0 A, I _{RR} = 0.25 A	75	90	nS



