



**America Semiconductor**

**Silicon Super Fast Recovery Diode**

**MUR2540 thru MUR2560R**

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

$I_F = 25\text{ A}$

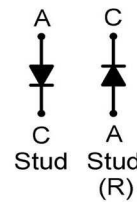
**Features**

- 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  $T_j = 25\text{ }^\circ\text{C}$ , 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	$I_F$	$T_C \leq 145\text{ }^\circ\text{C}$	25	25	A
Surge non-repetitive forward current, Half Sine Wave	$I_{F,SM}$	$T_C = 25\text{ }^\circ\text{C}$ , $t_p = 8.3\text{ ms}$	500	500	A
Operating temperature	$T_j$		-65 to 175	-65 to 175	$^\circ\text{C}$
Storage temperature	$T_{stg}$		-65 to 175	-65 to 175	$^\circ\text{C}$

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

Parameter	Symbol	Conditions	MUR2540 (R)	MUR2560 (R)	Unit
Diode forward voltage	$V_F$	$I_F = 25\text{ A}$ , $T_j = 25\text{ }^\circ\text{C}$	1.3	1.7	V
Reverse current	$I_R$	$V_R = 50\text{ V}$ , $T_j = 25\text{ }^\circ\text{C}$	10	10	$\mu\text{A}$
		$V_R = 50\text{ V}$ , $T_j = 125\text{ }^\circ\text{C}$	3	3	mA
<b>Recovery Time</b>					
Maximum reverse recovery time	$T_{RR}$	$I_F = 0.5\text{ A}$ , $I_R = 1.0\text{ A}$ , $I_{RR} = 0.25\text{ A}$	75	90	nS



