



Silicon Super Fast Recovery Diode

MUR7040 thru MUR7060R

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

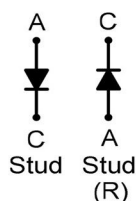
$I_F = 70\text{ A}$

Features

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

Note:

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



DO-5 Package

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

Parameter	Symbol	Conditions	MUR7040 (R)	MUR7060 (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	$T_C \leq 125\text{ °C}$	70	70	A
Surge non-repetitive forward current, Half Sine Wave	$I_{F,SM}$	$T_C = 25\text{ °C}$, $t_p = 8.3\text{ ms}$	1000	1000	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

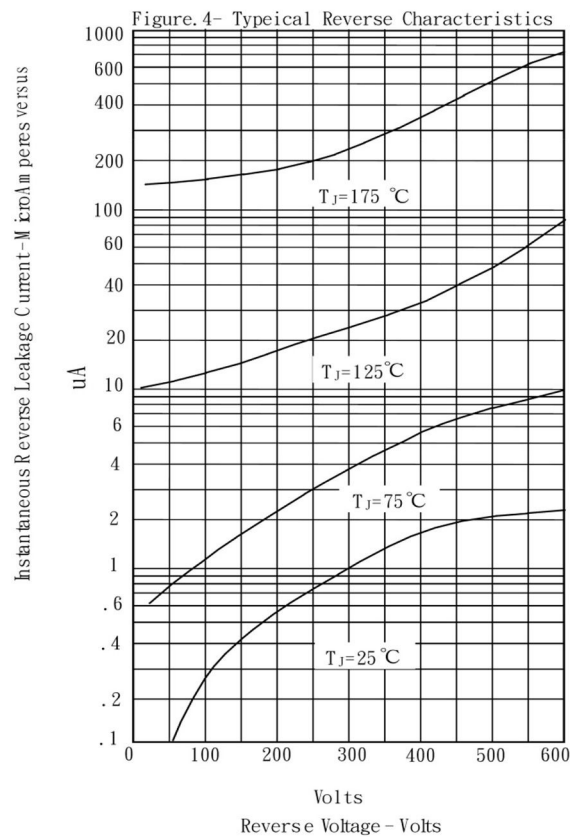
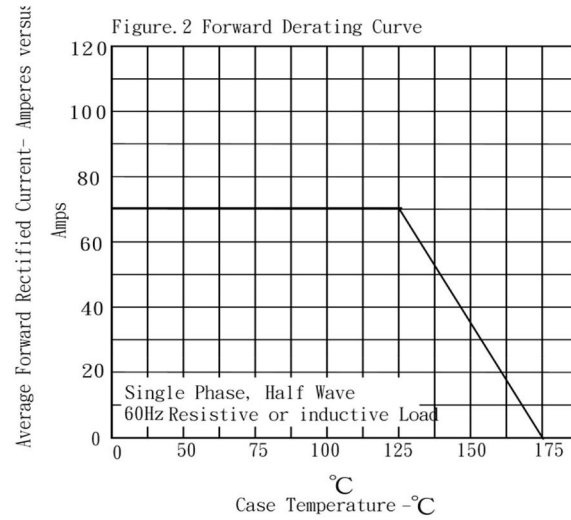
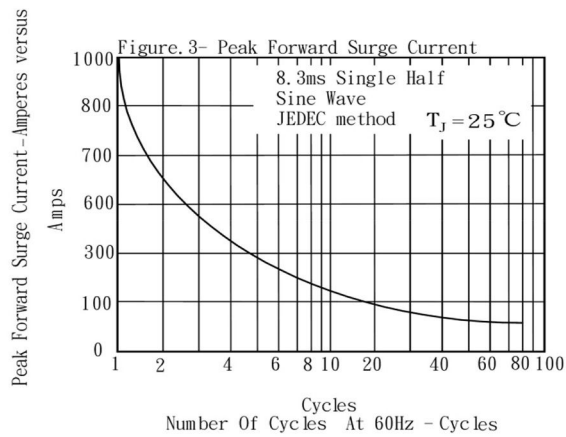
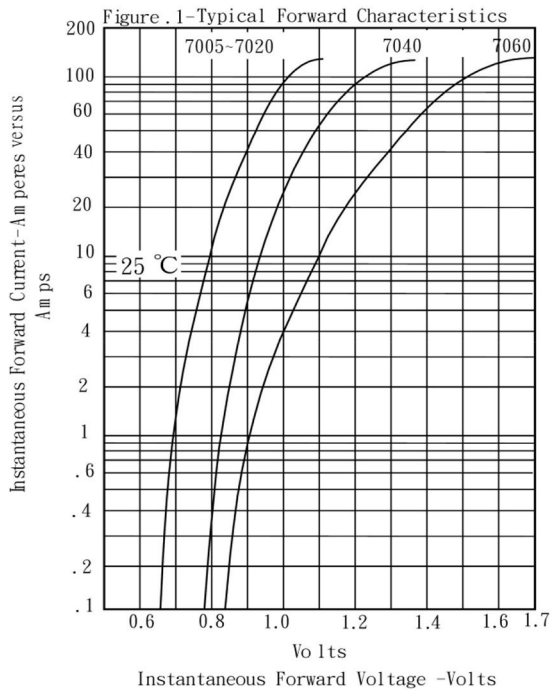
Parameter	Symbol	Conditions	MUR7040 (R)	MUR7060 (R)	Unit
Diode forward voltage	V_F	$I_F = 70\text{ A}$, $T_j = 25\text{ °C}$	1.3	1.7	V
Reverse current	I_R	$V_R = 50\text{ V}$, $T_j = 25\text{ °C}$ $V_R = 50\text{ V}$, $T_j = 125\text{ °C}$	25 3	25 3	μA mA
Recovery Time					
Maximum reverse recovery time	T_{RR}	$I_F = 0.5\text{ A}$, $I_R = 1.0\text{ A}$, $I_{RR} = 0.25\text{ A}$	75	90	nS





America Semiconductor

**MUR7040 thru
MUR7060R**



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