

## Silicon Super Fast Recovery Diode

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

$I_F = 100\text{ A}$

### Features

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

Twin Tower Package



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

Parameter	Symbol	Conditions	MUR10040CT (R)	MUR10060CT (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	$I_F$	$T_C \leq 140\text{ °C}$	100	100	A
Surge non-repetitive forward current, Half Sine Wave	$I_{F,SM}$	$T_C = 25\text{ °C}, t_p = 8.3\text{ ms}$	400	400	A
Operating temperature	$T_j$		-40 to 175	-40 to 175	°C
Storage temperature	$T_{stg}$		-40 to 175	-40 to 175	°C

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

Parameter	Symbol	Conditions	MUR10040CT (R)	MUR10060CT (R)	Unit
Diode forward voltage	$V_F$	$I_F = 50\text{ A}, T_j = 25\text{ °C}$	1.3	1.7	V
Reverse current	$I_R$	$V_R = 50\text{ V}, T_j = 25\text{ °C}$	25	25	$\mu\text{A}$
		$V_R = 50\text{ V}, T_j = 125\text{ °C}$	1	1	mA

### Recovery Time

Maximum reverse recovery time	$T_{RR}$	$I_F = 0.5\text{ A}, I_R = 1.0\text{ A}, I_{RR} = 0.25\text{ A}$	90	110	nS
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