

Silicon Super Fast Recovery Diode

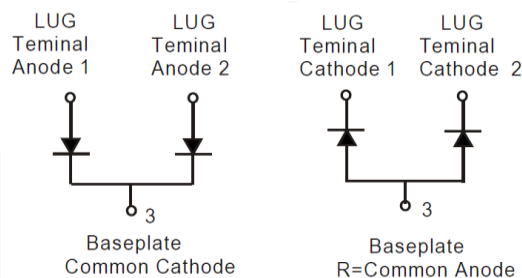
$V_{RRM} = 400\text{ V} - 600\text{ V}$

$I_{F(AV)} = 400\text{ A}$

Features

- High Surge Capability
- Types from 400 to 600 V V_{RRM}
- Not ESD Sensitive

Twin Tower Package



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

Parameter	Symbol	Conditions	MUR40040CT(R)	MUR40060CT(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
Operating temperature	T_j		-55 to 150	-55 to 150	°C
Storage temperature	T_{stg}		-55 to 150	-55 to 150	°C

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

Parameter	Symbol	Conditions	MUR40040CT(R)	MUR40060CT(R)	Unit
Average forward current (per pkg)	$I_{F(AV)}$	$T_C = 125\text{ °C}$	400	400	A
Peak forward surge current (per leg)	I_{FSM}	$t_p = 8.3\text{ ms}$, half sine	3300	3300	A
Maximum instantaneous forward voltage (per leg)	V_F	$I_{FM} = 200\text{ A}$, $T_j = 25\text{ °C}$	1.3	1.7	V
Maximum reverse current at rated DC blocking voltage (per leg)	I_R	$T_j = 25\text{ °C}$ $T_j = 125\text{ °C}$	25 3	25 3	μA mA
Maximum reverse recovery time (per leg)	T_{rr}	$I_F = 0.5\text{ A}$, $I_R = 1.0\text{ A}$, $I_{RR} = 0.25\text{ A}$	180	240	nS

Thermal characteristics

Maximum thermal resistance, junction - case (per leg)	$R_{\theta JC}$	0.35	0.35	°C/W
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Figure .1- Typical Forward Characteristics

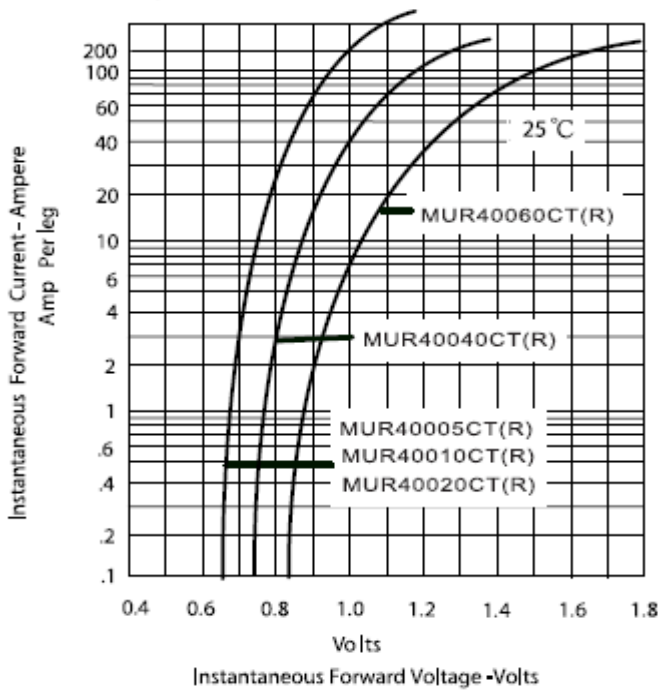


Figure .2- Forward Derating Curve

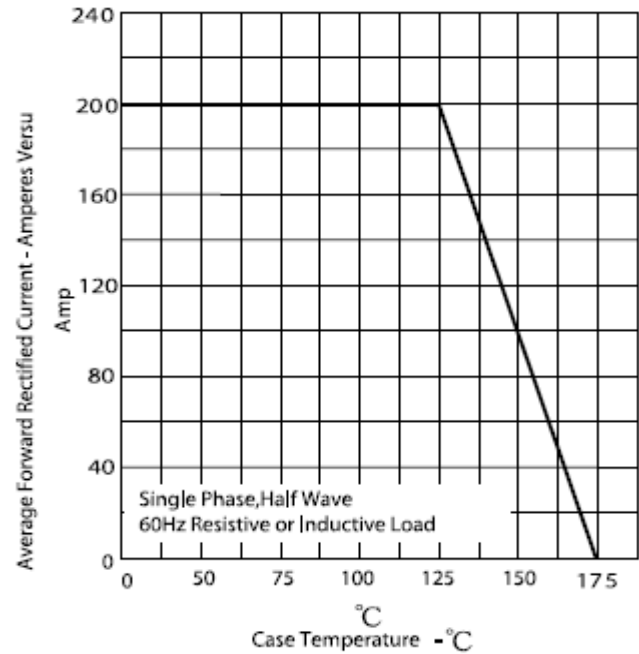


Figure.3- Peak Forward Surge Current

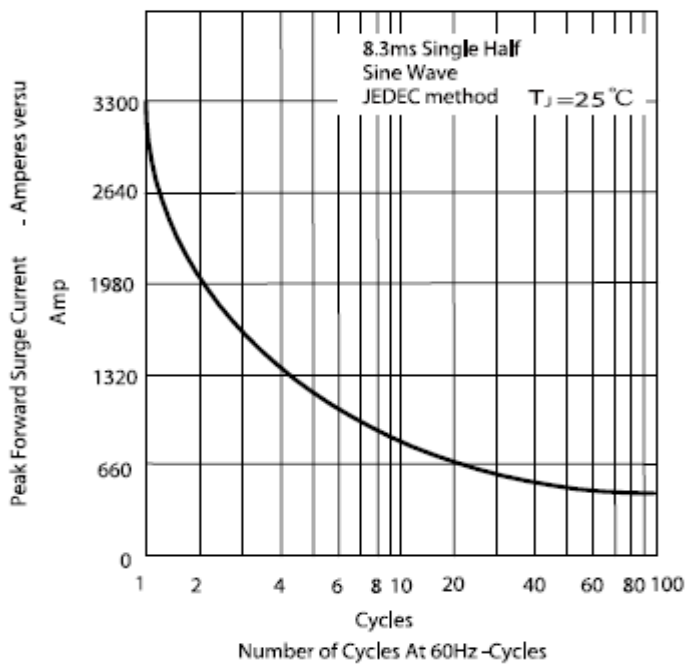
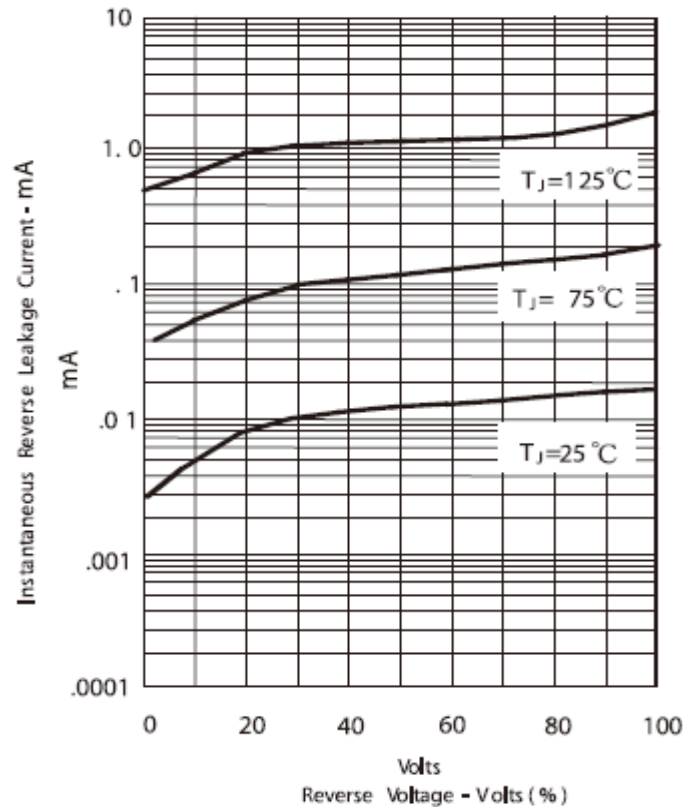
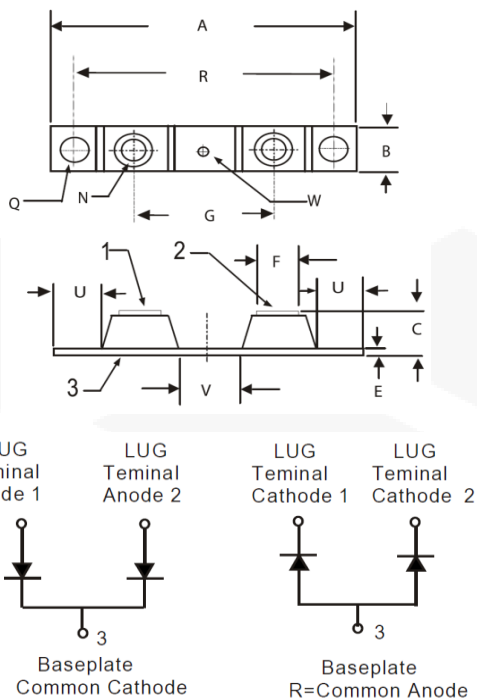


Figure .4 -Typical Reverse Characteristics



Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.



DIM	Inches		Millimeters	
	Min	Max	Min	Max
A	----	3.630	----	92.40
B	0.700	0.800	17.78	20.32
C	----	0.650	----	16.51
E	0.130	0.141	3.30	3.60
F	0.482	0.490	12.25	12.45
G	1.368	BSC	34.75	BSC
N	1/4-20 UNC FULL			
Q	0.275	0.290	6.99	7.37
R	3.150	BSC	80.01	BSC
U	0.600	----	15.24	----
V	0.312	0.370	7.92	9.40
W	0.180	0.195	4.57	4.95

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