

Silicon Super Fast Recovery Diode

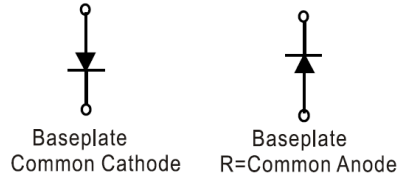
$V_{RRM} = 400\text{ V} - 600\text{ V}$

$I_{F(AV)} = 70\text{ A}$

Features

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

D-67 Package



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

Parameter	Symbol	Conditions	MURH7040(R)	MURH7060(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	MURH7040(R)	MURH7060(R)	Unit
Average forward current (per pkg)	$I_{F(AV)}$	$T_C = 125\text{ °C}$	70	70	A
Peak forward surge current	I_{FSM}	$t_p = 8.3\text{ ms}$, half sine	1500	1500	A
Maximum instantaneous forward voltage	V_F	$I_{FM} = 70\text{ A}$, $T_j = 25\text{ °C}$	1.30	1.70	V
Maximum reverse current at rated DC blocking voltage	I_R	$T_j = 25\text{ °C}$	25	25	μA
		$T_j = 125\text{ °C}$	3	3	mA
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

Thermal characteristics

Maximum thermal resistance, junction - case	$R_{\theta JC}$	0.60	0.60	°C/W
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Figure .1- Typical Forward Characteristics

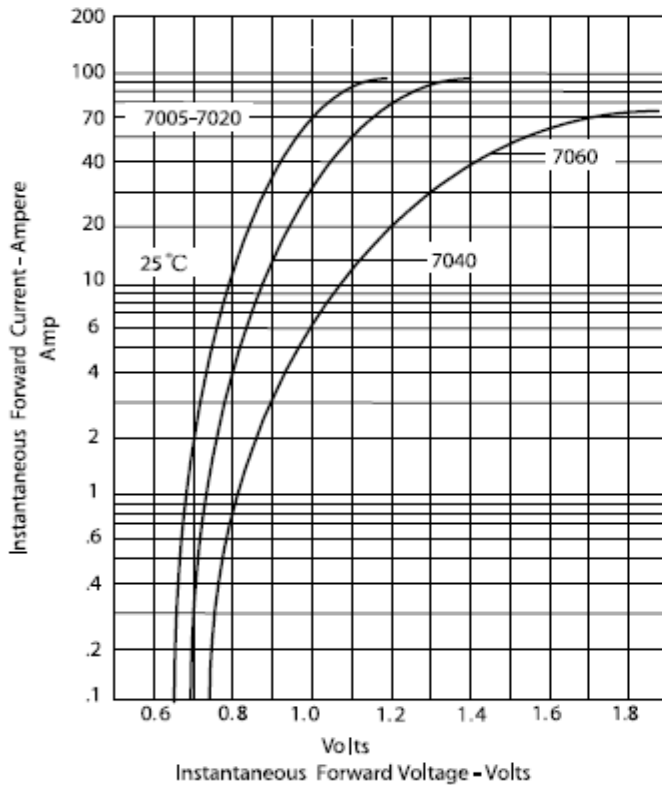


Figure .2- Forward Derating Curve

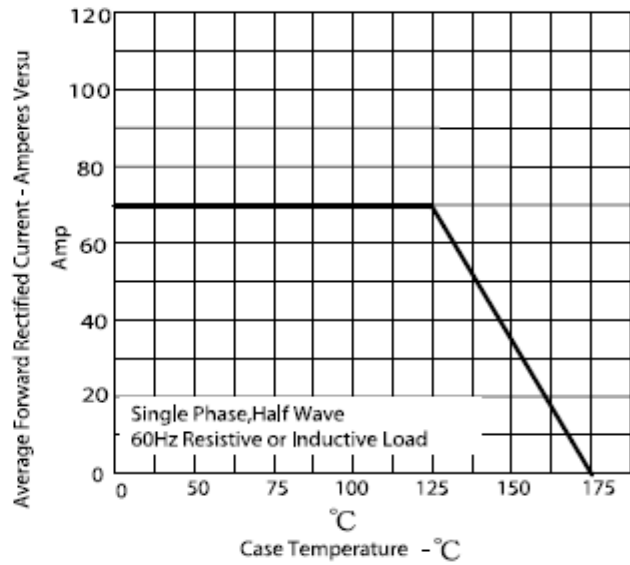


Figure.3- Peak Forward Surge Current

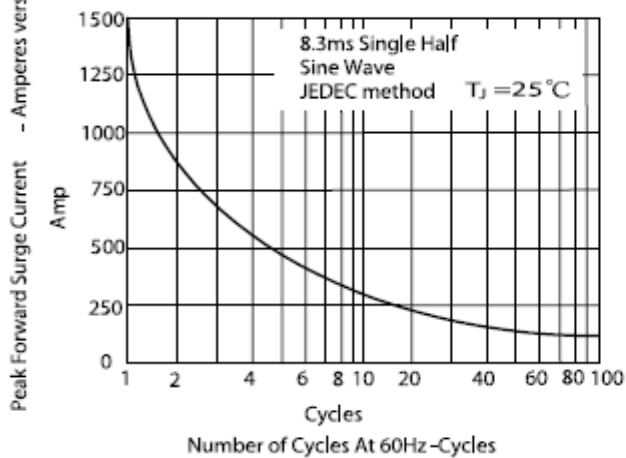
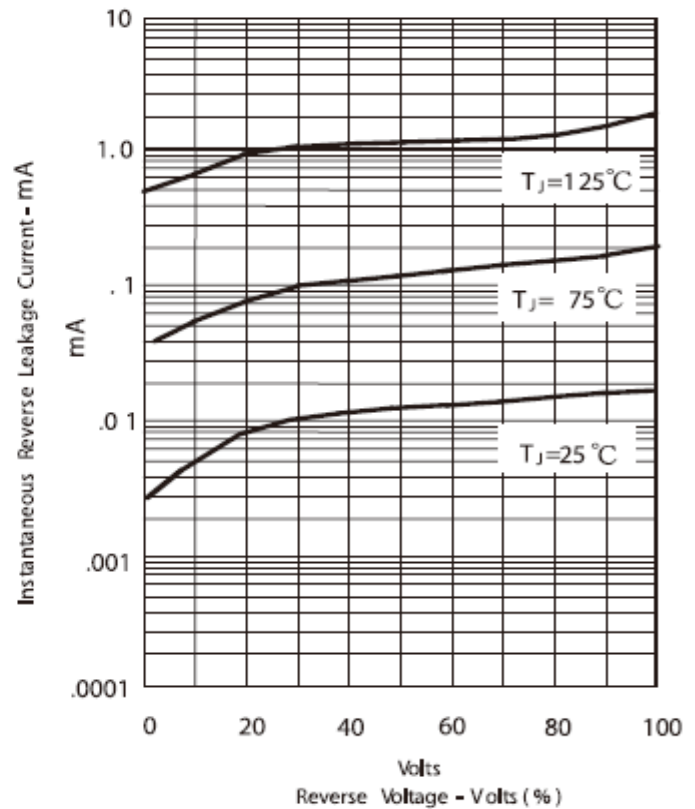
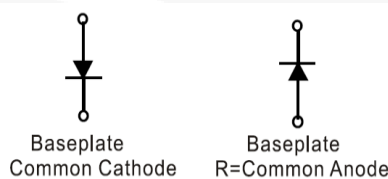
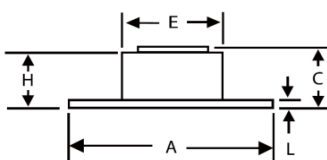
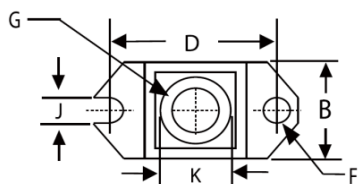


Figure .4-Typical Reverse Characteristics



Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	1.515	1.560	38.48	39.62	
B	.725	.775	18.42	19.69	
C	.595	.625	15.11	15.88	
D	1.182	1.192	30.02	30.28	
E	.736	.744	18.70	18.90	
F	.152	.160	3.86	4.061	Ø
G	1/4 - 20 UNC				
H	.540	.580	13.72	14.73	
J	.156	.160	3.96	4.06	
K	.480	.492	12.20	12.50	Ø
L	.120	.130	3.05	3.30	

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