

## Silicon Super Fast Recovery Diode

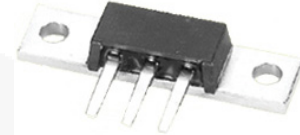
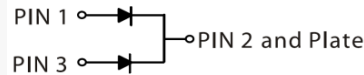
$V_{RRM} = 400\text{ V} - 600\text{ V}$

$I_F = 70\text{ A}$

### Features

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

D61-3M Package



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

Parameter	Symbol	Conditions	UFT7340M	UFT7360M	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	$^\circ\text{C}$
Storage temperature	$T_{stg}$		-55 to 150	-55 to 150	$^\circ\text{C}$

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

Parameter	Symbol	Conditions	UFT7340M	UFT7360M	Unit
Average forward current (per pkg)	$I_{F(AV)}$	$T_C = 125\text{ }^\circ\text{C}$	70	70	A
Peak forward surge current (per leg)	$I_{FSM}$	$t_p = 8.3\text{ ms}$ , half sine	800	800	A
Maximum instantaneous forward voltage (per leg)	$V_F$	$I_{FM} = 35\text{ A}$ , $T_j = 25\text{ }^\circ\text{C}$	1.3	1.7	V
Maximum instantaneous reverse current at rated DC blocking voltage (per leg)	$I_R$	$T_j = 25\text{ }^\circ\text{C}$	20	20	$\mu\text{A}$
		$T_j = 125\text{ }^\circ\text{C}$	3	3	mA
Maximum reverse recovery time (per leg)	$T_{rr}$	$I_F = 0.5\text{ A}$ , $I_R = 1.0\text{ A}$ , $I_{RR} = 0.25\text{ A}$	75	90	ns

### Thermal characteristics

Parameter	Symbol	Conditions	UFT7340M	UFT7360M	Unit
Maximum thermal resistance, junction - case (per leg)	$R_{\theta JC}$		1.2	1.2	$^\circ\text{C/W}$

Figure .1- Typical Forward Characteristics

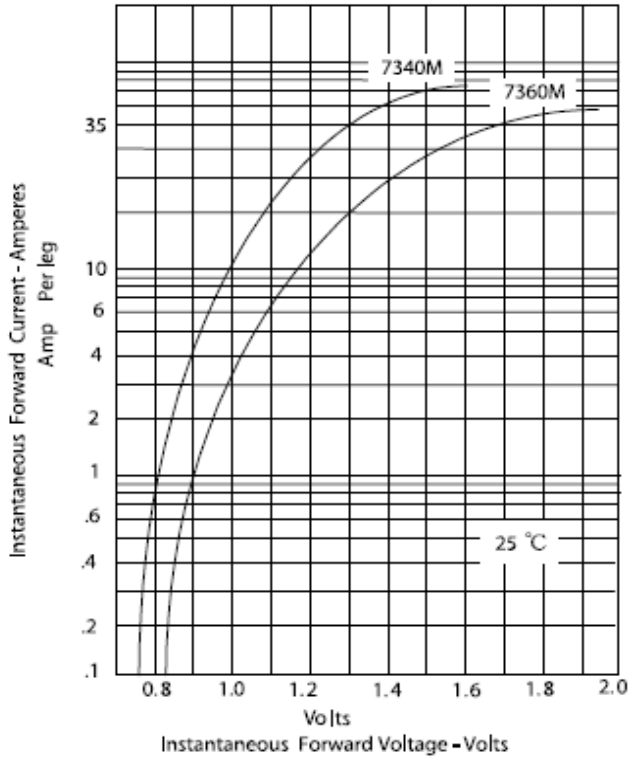


Figure .2- Forward Derating Curve

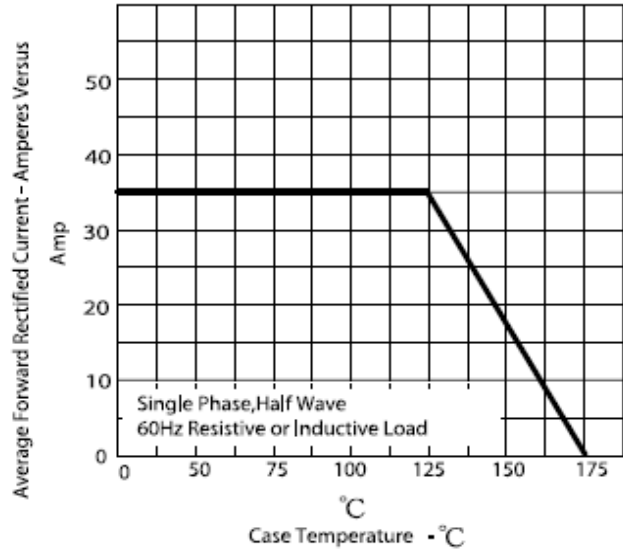


Figure .4-Typical Reverse Characteristics

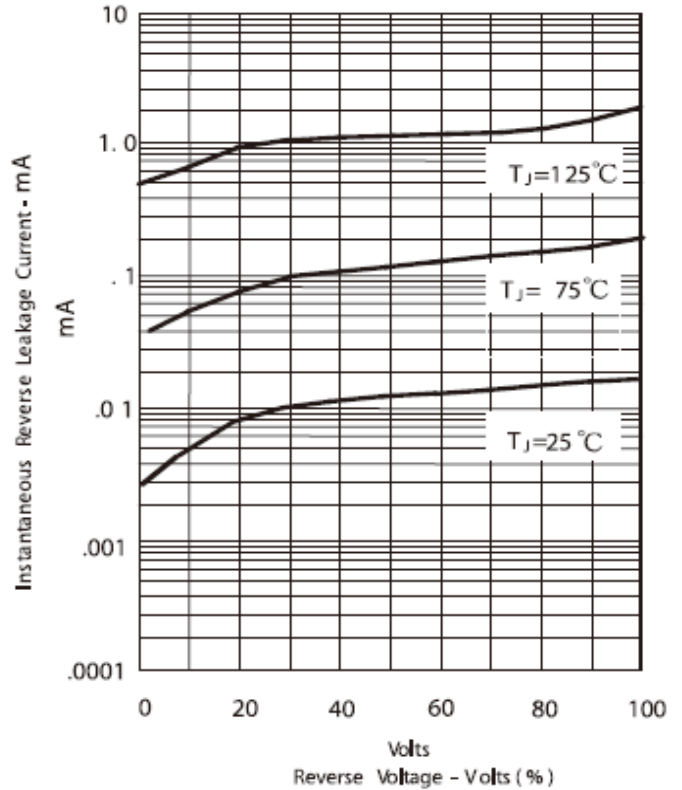
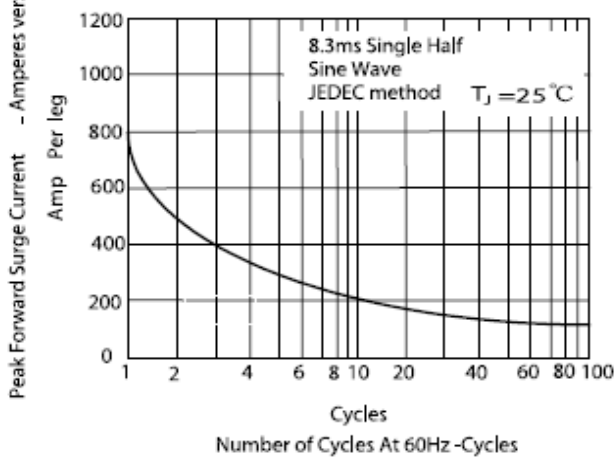
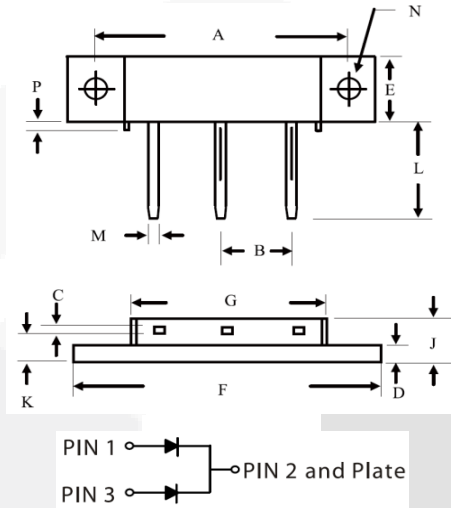


Figure.3- Peak Forward Surge Current



## Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.



DIM	Inches		Millimeters	
	Min	Max	Min	Max
A	1.180	1.195	29.97	30.35
B	0.200	NOM	5.08	NOM
C	0.027	0.037	0.69	0.94
D	0.088	0.098	2.24	2.49
E	0.350	0.370	8.89	9.40
F	1.490	1.510	37.85	38.35
G	0.695	0.715	17.65	18.16
J	0.240	0.260	6.10	6.60
K	0.115	0.135	2.92	3.43
L	0.457	0.477	11.61	12.12
M	0.065	0.085	1.65	2.16
N	0.151	0.161	3.84	4.09
P	0.015	0.025	0.38	0.64