

## Silicon Super Fast Recovery Diode

 $V_{RRM} = 50\text{ V} - 600\text{ V}$ 
 $I_F = 70\text{ A}$ 

### Features

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

**D61-3SM Package**


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

Parameter	Symbol	Conditions	UFT7305SM	UFT7310SM	UFT7320SM	Unit
Repetitive peak reverse voltage	$V_{RRM}$		50	100	200	V
RMS reverse voltage	$V_{RMS}$		35	70	140	V
DC blocking voltage	$V_{DC}$		50	100	200	V
Continuous forward current	$I_F$	$T_C \leq 125\text{ °C}$	70	70	70	A
Surge non-repetitive forward current, Half Sine Wave	$I_{F,SM}$	$T_C = 25\text{ °C}$ , $t_p = 8.3\text{ ms}$	700	700	700	A
Operating temperature	$T_j$		-65 to 175	-65 to 175	-65 to 175	°C
Storage temperature	$T_{stg}$		-65 to 175	-65 to 175	-65 to 175	°C

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

Parameter	Symbol	Conditions	UFT7305SM	UFT7310SM	UFT7320SM	Unit
Diode forward voltage	$V_F$	$I_F = 35\text{ A}$ , $T_j = 25\text{ °C}$	1	1	1	V
Reverse current	$I_R$	$V_R = 50\text{ V}$ , $T_j = 25\text{ °C}$	25	25	25	$\mu\text{A}$
		$V_R = 50\text{ V}$ , $T_j = 125\text{ °C}$	3	3	3	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	75	75	nS
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