

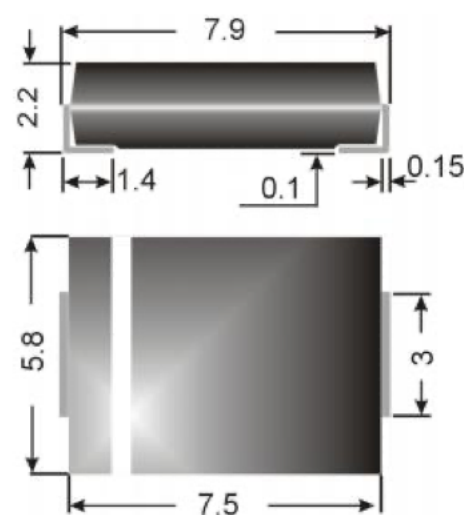
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US3J

FIND PARTS



US 3A ... US 3S



Surface mount diode

Ultrafast silicon rectifier diodes

US 3A...US 3S

Forward Current: 3 A

Reverse Voltage: 50 to 1200 V

Features

- Max. solder temperature: 260°C
- Plastic material has UL classification 94V-0

Type	Polarity color band	Repetitive peak reverse voltage V_{RRM} V	Surge peak reverse voltage V_{RSM} V	Maximum forward voltage $T_j = 25\text{ °C}$ $I_F = 3\text{ A}$ $V_F^{(2)}$ V	Maximum reverse recovery time $I_F = 0,5\text{ A}$ $I_R = 1\text{ A}$ $I_{RR} = 0,25\text{ A}$ t_{rr} ns
US 3A	-	50	50	1	50
US 3B	-	100	100	1	50
US 3D	-	200	200	1	50
US 3G	-	400	400	1,25	50
US 3J	-	600	600	1,7	75
US 3K	-	800	800	1,7	75
US 3M	-	1000	1000	1,7	75
US 3S	-	1200	1200	1,7	75

Absolute Maximum Ratings

$T_A = 25\text{ °C}$, unless otherwise specified

Symbol	Conditions	Values	Units
I_{FAV}	Max. averaged fwd. current, R-load, $T_T = 100\text{ °C}$	3	A
I_{FRM}	Repetitive peak forward current $f > 15\text{ Hz}^{(1)}$	15	A
I_{FSM}	Peak fwd. surge current 50 Hz half sinus-wave $^{(3)}$	100	A
I^2t	Rating for fusing, $t < 10\text{ ms}^{(3)}$	50	A ² s
R_{thA}	Max. thermal resistance junction to ambient $^{(4)}$	50	K/W
R_{thT}	Max. thermal resistance junction to terminals	10	K/W
T_j	Operating junction temperature	-50...+150	°C
T_s	Storage temperature	-50...+150	°C