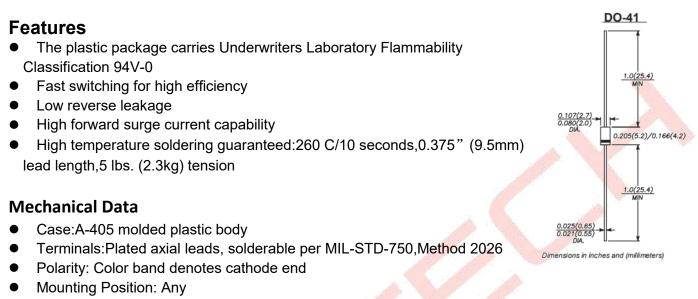
## FR101AT THRU FR107AT

### Fast Recovery Rectifiers

Reverse Voltage:50-1000V Forward Current:1.0A



• Weight:0.008 ounce, 0.23 grams

### Maximum Ratings and Electrical Characteristics

Ratings at 25 C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

	Symbol	101	102	103	104	105	106	107	Unit
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	v
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	v
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	v
Maximum average forward rectified current 0.375"(9.5mm) lead length at TA=75 C	I <sub>(AV)</sub>	1.0							A
Peak forw <mark>ard</mark> surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	30.0							A
Maximum instantaneous forward voltage at 1.0A	VF	1.3							v
Maximum DC reverse currentTA=25℃at rated DC blocking voltageTA=100℃	I <sub>R</sub>	5.0 50.0							uA
Maximum reverse recovery time <sup>1</sup>	t <sub>rr</sub>	150			250	400		ns	
Typical junction capacitance <sup>2</sup>	С	15.0							pF
Typical thermal resistance <sup>3</sup>	R <sub>0JA</sub>	50.0							ଂC/ <b>W</b>
Operating junction and storage temperature range	T <sub>J</sub> ,T <sub>STG</sub>	-55 to +150							ĉ

Note: 1.Reverse recovery condition IF=0.5A,IR=1.0A,Irr=0.25A

2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

3. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted



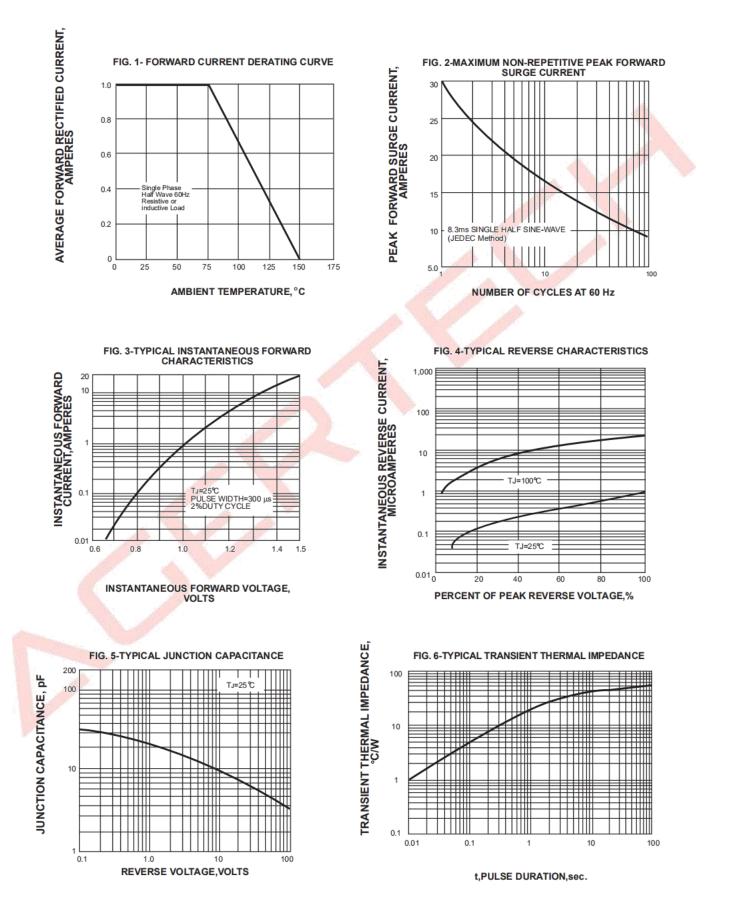
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# FR101AT THRU FR107AT

### **Ratings and Characteristic Curve**





#### AGERTECH MICROELECTRONICS

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