1S1 ~ 1S8 1.0Amp Super Fast Rectifiers

Features

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Super fast speed switching for high efficiency
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed:
 260°C/10 seconds,0.375"(9.5mm) lead length,
 5 lbs. (2.3kg) tension

Mechanical Data

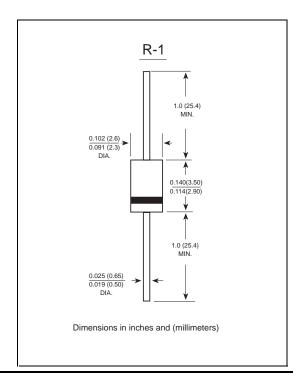
Case: JEDEC R-1 molded plastic body

Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.007 ounce, 0.2 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%.

	SYMBOLS	1S1	1S2	1S3	1S4	1S5	1S6	1S8	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	150	200	300	400	600	VOLTS
Maximum RMS voltage	V _{RMS}	35	70	105	140	210	280	420	VOLTS
Maximum DC blocking voltage	VDC	50	100	150	200	300	400	600	VOLTS
Maximum average forward rectified current	I(AV)	I(AV) 1.0							
0.375" (9.5mm) lead length at T _A =55°C	I(AV)	1.0						Amps	
Peak forward surge current									
8.3ms single half sine-wave superimposed on	IFSM	30.0						Amps	
rated load (JEDEC Method)									
Maximum instantaneous forward voltage at 1.0A	VF		0.95		1.25		1.7	Volts	
Maximum DC reverse current TA=25°C		5.0						μΑ	
at rated DC blocking voltage T _A =100℃	l _R	50.0							
Maximum reverse recovery time (NOTE 1)	trr	35							ns
Typical junction capacitance (NOTE 2)	CJ	15.0 10.0					pF		
Typical thermal resistance (NOTE 3)	Rөja	60.0							°C/W
Operating junction and storage temperature range	Т _J ,Тsтg	-65 to +150							°C

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