Shanghai Sinble Electronics Co.,Ltd

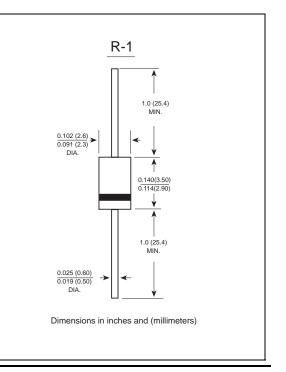
1S20~1S100 1.0Amp Schottky Barrier Rectifiers

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- Built-in strain relief, ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

Mechanical Data

Case : 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, 0.20 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	1S 20	1S 30	1S 40	1S 50	1S 60	1S 70	1S 80	1S 90	1S 100	UNITS
Maximum repetitive peak reverse voltage	VRRM	20	30	40	50	60	70	80	90	100	VOLTS
Maximum RMS voltage	Vrms	14	21	28	35	42	49	56	63	70	VOLTS
Maximum DC blocking voltage	VDC	20	30	40	50	60	70	80	90	100	VOLTS
Maximum average forward rectified current	I(AV)	1.0									A 199 19
0.375" (9.5mm) lead length (see fig.1)	I(AV)									Amp	
Peak forward surge current		Ігѕм 40.0									
8.3ms single half sine-wave superimposed on	IFSM										Amps
rated load (JEDEC Method)											
Maximum instantaneous forward voltage at 1.0A	VF	0.55 0.70 0.85				,	Volts				
Maximum DC reverse current TA=25°C		0.5								mA	
at rated DC blocking voltage TA=100℃	IR	10.0									
Typical junction capacitance (NOTE 1)	CJ	110 80							рF		
Typical thermal resistance (NOTE 2)	Reja	50.0								°C/W	
Operating junction temperature range	TJ,	-65 to +125 -65 to +150							°C		
Storage temperature range	Tstg	-65 to +150								°C	

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

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