

SHENZHEN FAITH TECHNOLOGY CO., LTD

SURFACE MOUNT SUPER FAST RECTIFIER

RS5A THRU RS5M

VOLTAGE RANGE CURRENT 50 to 1000 Volts 5.0 Ampere

FEATURES

- Plastic package has underwrites laboratory flammability Classification 94V-0
- For surface mounted applications
- Low profile package
- Built-in strain relief, ideal for automated placement
- Glass Passivated chip junction
- High temperature soldering:
- 250° C/10 second at terminals

MECHANICAL DATA

- Case: JEDED DO-214AA molded plastic over glass passivated chip
- Terminals: Solder plated, Solderable per MIL-STD-750, method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.007ounce, 0.25 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

• Ratings at 25°C ambient temperature unless otherwise specified

MAXIMUM RATINGS & THERMAL CHARACTERISTICS

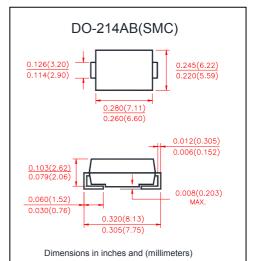
TYPE NUMBER	SYMBOLS	RS5A	RS5B	RS5D	RS5G	RS5J	RS5K	RS5M	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current	I _{F(AV)}	5.0							Amps
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC method)	I _{FSM}	100							Amps
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	47							°C/W
	$R_{\theta JL}$	13							
Operating junction and Storage Temperature Range	T _J ,T _{STG}	-55 to +150							°C

ELECTRICAL CHARACTERISTICS

TYPE NUMBER		SYMBOLS	RS5A	RS5B	RS5D	RS5G	RS5J	RS5K	RS5M	UNIT
Maximum Instantaneous Forward Voltage at 5.0A		V _F	1.30							Volts
Maximum DC Reverse Current at rated DC Blocking Voltage	$T_A = 25 \degree C$	I _R	5.0							μΑ
	$T_A = 125^{\circ}C$		50							
Typical Reverse Recovery Time at $I_F=0.5A$, $I_R=1.0A$, $I_{RR}=0.25A$		t _{rr}		15	50		250	50	00	ns

Notes:

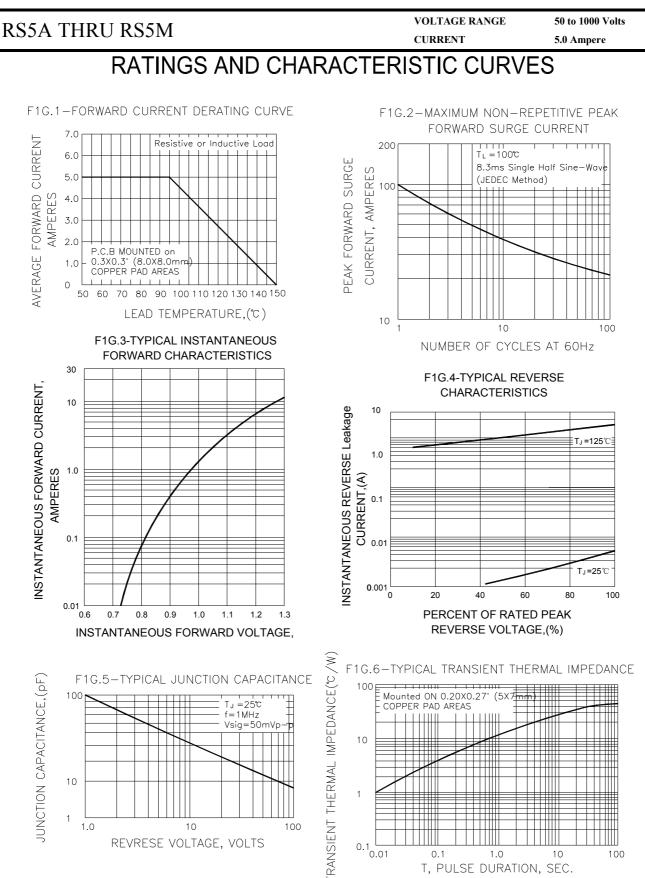
1. Thermal resistance from Junction to ambient and from junction to lead mounted on P.C.B.with 0.3×0.3 " (8.0×8.0 mm) copper pad areas.





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