SR2540(F)CT~SR25200(F)CT

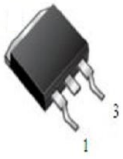
25.0Amp Schottky Barrier Rectifiers

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 250°C,MAX. for 10 seconds

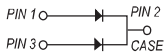
TO-220AB

ITO-220AB



TO-263

TO-252



Mechanical Data

Case: (I)TO-220AB,TO-263,TO-252 molded plastic body
Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
Polarity: As marked
Mounting Position: Any

Maximum Ratings And Electrical Characteristics

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

	SYMBOLS	SR 2540(F)CT	SR 2560(F)CT	SR 25100(F)CT	SR 25150(F)CT	SR 25200(F)CT	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	40	60	100	150	200	VOLTS
Maximum RMS voltage	V_{RMS}	28	42	70	105	140	VOLTS
Maximum DC blocking voltage	V_{DC}	40	60	100	150	200	VOLTS
Maximum average forward rectified current (see fig.1)	$I_{(AV)}$	25.0					Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	200.0					Amps
Maximum instantaneous forward voltage at 12.5A	V_F	0.55	0.70	0.85	0.95		Volts
Maximum DC reverse current T_A=25℃	I_R	0.5		0.2			mA
at rated DC blocking voltage T_A=100℃		20.0		10.0			
Typical junction capacitance (NOTE 1)	C_J	300		250			pF
Typical thermal resistance (NOTE 2)	$R_{\theta JC}$	22					°C/W
Operating junction temperature range	T_J	-55 to +125		-55 to +150			°C
Storage temperature range	T_{STG}	-55 to +150					°C

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

2.Thermal resistance from junction to case