80SQ050

8.0AMPS. SILICON RECTIFIERS

Voltage Range
50 Volts
Current
8.0Amperes

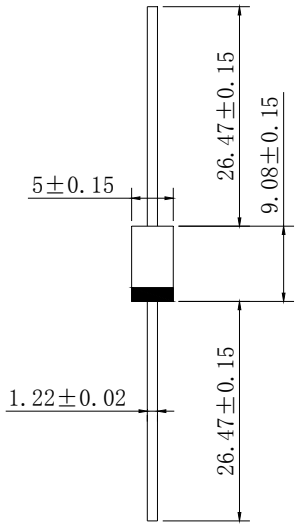
Features

- Low cost
- Diffused junction
- Low forward voltage drop
- Low reverse leakage current
- High current capability
- T he plastic materal carriers UL recognition 94V-0

Mechanical Data

- Cases: JEDEC DO-201AD molded plastic
- Terminals:Solder plated
- Polarity:Color band denotes cathode
- Weight:1.2 grams
- Mouting position:Any

DO-201AD



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave,60Hz,resistive or inductive load.

For capacitive load,derate current by 20%

Type Number		80SQ050	UNITS
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	V
Maximum RMS Voltage	V_{RMS}	35	V
Maximum DC Blocking Voltage	V_{DC}	50	V
Maximum Average Forward Rectified Current @Ta=75℃	$IF_{(AV)}$	8.0	A
Peak Forward Surge Current,8.3 ms Single Half Sine-wave Superimposed on Rated Load(JEDEC method)	I_{FSM}	200	A
Maximum I Forward Voltage at 8A DC	V_F	0.55	V
Maximum DC Reverse Crrent @ Tj=25°C At Rated DC Blocking Voltage @ Tj=100°C	I_R	0.20 10.0	mA
Typical Thermal Resistance junction to ambient air Typical Thermal Resistance junction to leads	$R_{\theta JA}$ $R_{\theta JL}$	14.0 5.0	°C/W
Operating Temperature Range at reduced reverse voltage $V_R \leqslant 80\%_{VRRM}$ In DC forward mode $V_R \leqslant 50\%V_{RRM}$	T_J	-55 to +150 -55 to +180 -55 to +200	°C
Storage Temperature Ranage	T_{STG}	-55 to +175	°C

NOTES:

RATING AND CHARACTERISTIC CURVES
80SQ050

FIG. 1-RATED FORWARD CURRENT VS AMBIENT TEMPERATURE

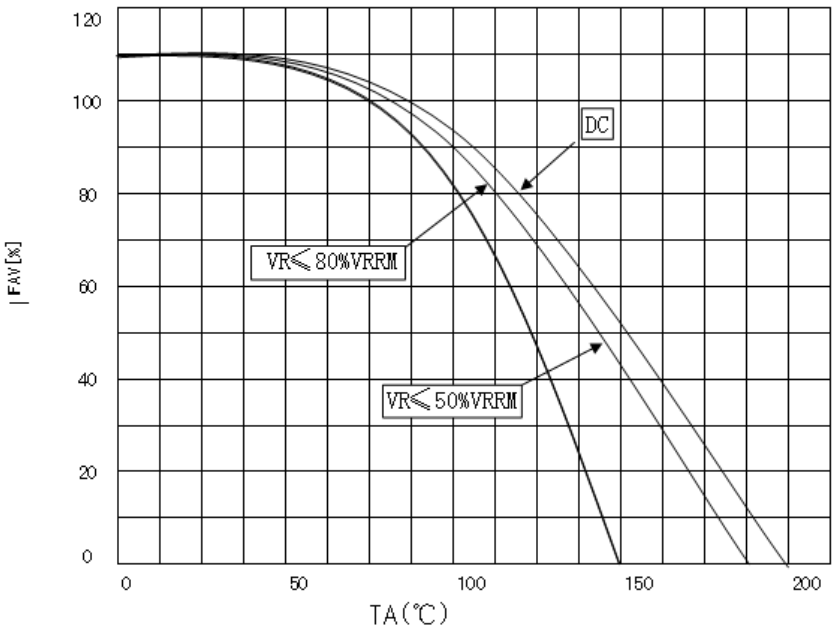


FIG. 2-TYPICAL INSTANTANEOVS FORWARD CHARACTERISTIC