

Schottky Barrier Rectifier 200V Current 5A

FEATURES AND BENEFITS

- Low power loss, high efficiency operation
- Low forward voltage drop
- Fast switching capability
- High forward surge capability
- Excellent High Temperature Stability

Primary Characteristic	
I_o	5A
V_{RRM}	200V
I_{FSM}	125A
V_F Typical=5A $T_J=125^\circ\text{C}$	0.68V
T_{jmax}	150°C

MECHANICAL DATA

- Epoxy: UL94 V-0 rated flame retardant
- Case: DO-201AD Package
- Terminals: Matte Tin annealed over copper
- Weight:



DO-201AD



Maximum Ratings (Ta=25°C unless otherwise specified)						
Characteristics			Symbol	Value		Unit
Peak Repetitive Reverse Voltage			VRRM	200		V
Working Peak Reverse Voltage			VRWM	200		V
DC Blocking Voltage			VDC	200		V
RMS Reverse Voltage			VRMS	140		V
Average Forward Rectified Current (per diode)			Io	5		Amps
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)			IFSM	125		Amps
Electrical Characteristics (Ta=25°C unless otherwise specified)						
Characteristics			Symbol	Typ.	Max.	Unit
Forward Voltage Drop ⁽¹⁾	IF=1A	Ta=25°C	VF	0.70		V
	IF=5A	Ta=25°C	VF	0.82	0.95	V
	IF=1A	Ta=125°C	VF	0.54		V
	IF=5A	Ta=125°C	VF	0.68		V
Reverse Current ⁽²⁾	VR=200V	Ta=25°C	IR	0.5	10	µA
	VR=200V	Ta=125°C	IR	1		mA

Notes (1): Pulse test: 300 μs pulse width, 1% duty cycle,

Notes (2): Pulse width $\leq 40\text{ms}$

THERMAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ unless otherwise noted)			
Characteristics	Symbol	Value	Unit
Typical Thermal Resistance, junction to Lead	$R_{\theta JC}$	20	$^\circ\text{C/W}$
Operating Temperature Range (in DC Mode)	T_J	-65 to +150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-65 to +150	$^\circ\text{C}$

Notes (3): FR-4 PCB, 2oz copper. Minimum recommended pad layout

RATINGS AND CHARACTERISTICS CURVES

Fig 1. Typical Forward Characteristics

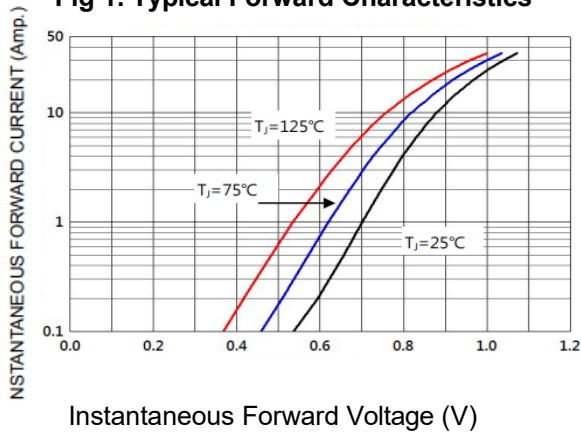


Fig 2. Typical Reverse Characteristics

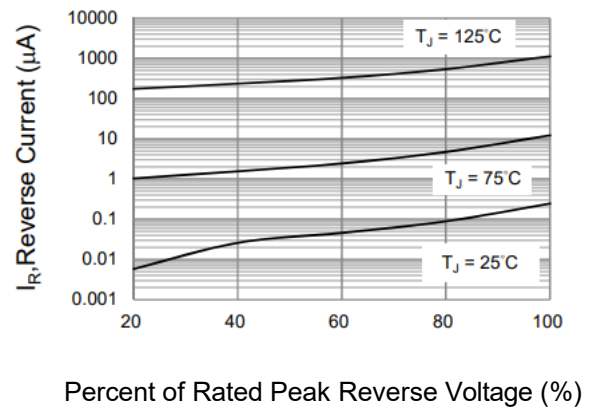


Fig 3. Forward Current Derating Curve

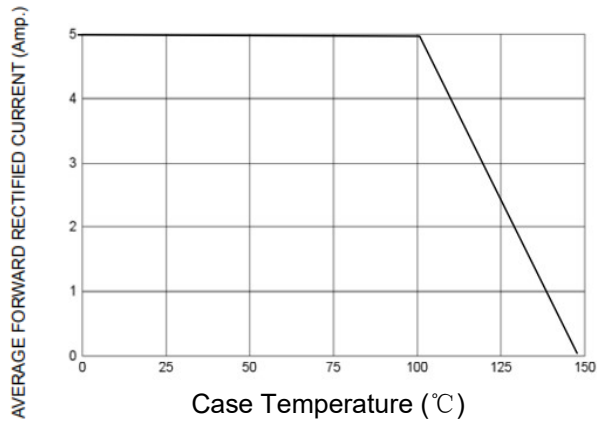
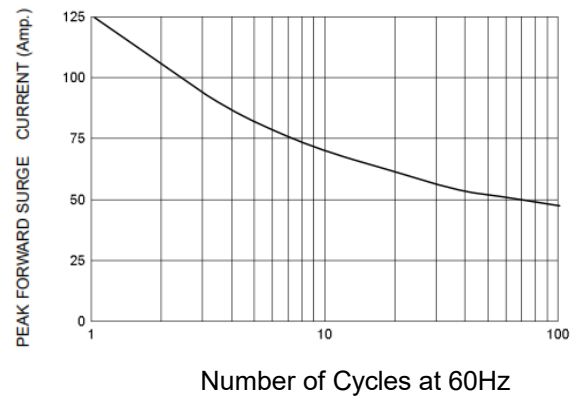
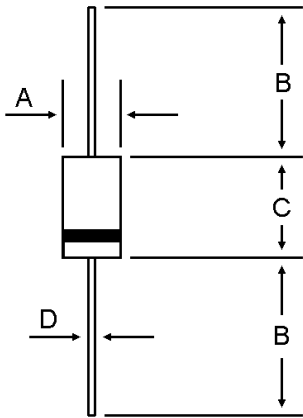


Fig 4. Non-repetitive Forward Surge Current



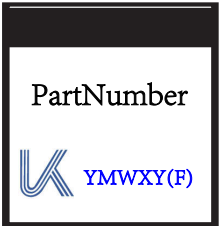
Package Outline Dimensions (in millimeters)



DIM	MILLIMETERS	
	MIN	MAX
A	5.00	5.60
B	25.40	---
C	8.50	9.50
D	1.10	1.30

Marking Information

Series Name 康虹=



=Part Number Marking Code

=Product Tracking Code