

FEATURES

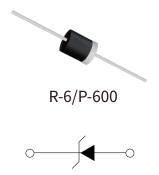
The Plastic Package Carries Underwriters Laboratory

Flammability Classification 94V-0

| Guardring For Overvoltage Protection

Low Reverse Leakage

High Forward Surge Current Capability



Schematic Symbol

APPLICATIONS

Case: Molded Plastic Body

| Polarity : Polarity Symbol Marking On Body

| Mounting Position : Any

APPROVALS

RoHS Compliance with 2011/65/EU

HF Compliance with IEC61249-2-21:2003

MAXIMUM RATINGS $(T_A = 25^{\circ}C)$

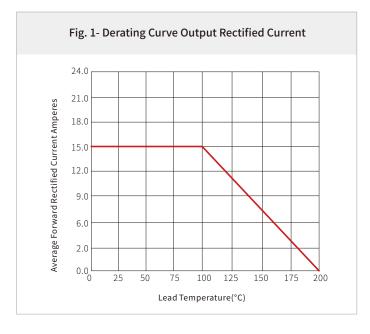
Parameter		Symbol	Value	Unit
Marking			15SQ100	
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	100	V
Maximum RMS Voltage		V _{RMS}	70	V
Maximum DC Blocking Voltage		V_{DC}	100	V
Maximum Average Forward Rectified Current at $\rm T_L = 100^{\circ}C$		I _{F(AV)}	15.0	А
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed On Rated Load		I _{FSM}	320.0	А
Maximum Instantaneous Forward Voltage at 15.0A		V _F	0.85	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _A =25°C	l _R	0.05	mA
	T _A =100°C		5	mA
Typical Thermal Resistance		$R_{\theta JA}$	40.0	°C/W
Junction Temperature@ In DC Forward Mode-forward Operations, without Reverse Bias, T≤1H (Fig. 1)①		T_{J}	-55 to +200	°C
Current Squared Time 1ms≤t<8.3ms Tj=25°C		l²t	427	A ² S
Storage Temperature		T _{stg}	-55 to +200	°C

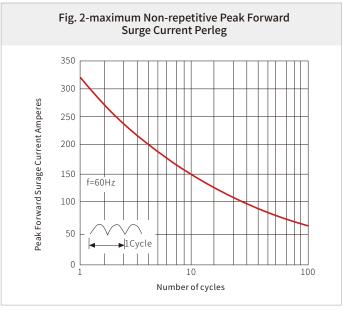
Note:

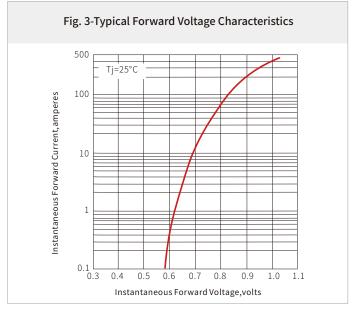
① Meets the requirements of IEC 61215 Ed. 2 bypass diode thermal test.

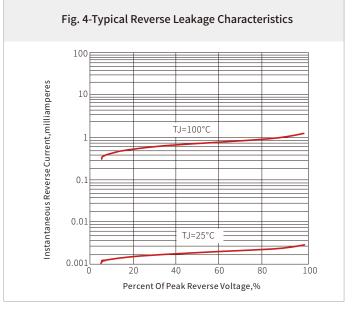


CHARACTERISTIC CURVES



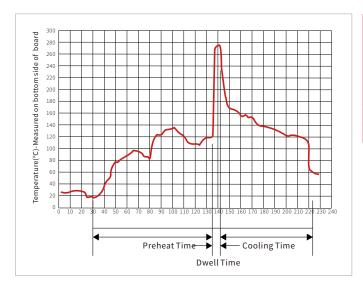






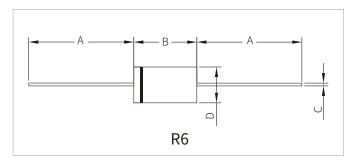


WAVE SOLDERING



Wave Parameter		Lead-free assembly
Pre Heat	Temperature Min	100°C
	Temperature Max	150°C
	Time(min to max)	60 – 180 secs
Solder pot Temperature		280°C Max
Solder Dwell Time		2-5 seconds

P600 PACKAGE INFORMATION



Ref.	Millim	neters	Inches		
	Min.	Max.	Min.	Max.	
А	25.40	-	1.000	-	
В	8.60	9.40	0.339	0.370	
С	1.20	1.40	0.047	0.055	
D	8.60	9.10	0.339	0.358	

ORDERING INFORMATION

Part Number	Component Package	QTY/Box	Q'TY/Carton
15SQ100HTC	R6/P600	500pcs	5000pcs



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By QR Code





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