

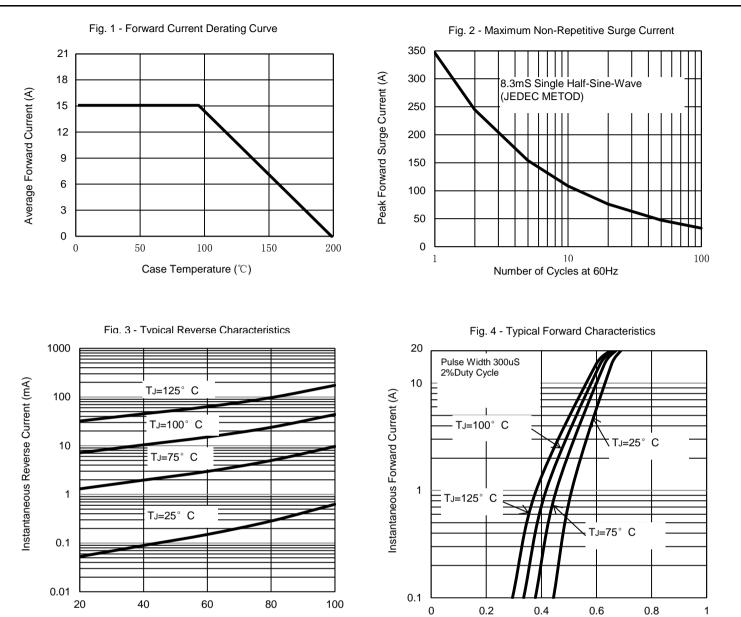
15SQ045 THRU 15SQ060

Photovoltaic Solar Cell Protection		Reverse Voltage 45-60 Volts		
Schottky Diode		Forward Cur	rent - 15.0 Amperes	
Features • Low power loss, high efficiency • High current capability, low V _F • High surge capacity		R- 6		RoH
 Mechanical Data Case: JEDEC R-6 molded plastic Polarity: Color band denotes cathode Mounting position: Any 		Min. . <u>.360 (9.1)</u> 	$\frac{2(1.3)}{3(1.2)}$ Dia. Tc measurement point	
Applications For use in solar cell junction box as a bypass diode 		1.0 (25.4) Min.	60 (9.1) 40 (8.6) Dia.	
		Package Outline Dim	ensions in Inches (Millimete	ers)
Maximum Ratings and Electrical Charact				
Rating at 25°C ambient temperature unless otherwise spect Single phase, half wave, 60Hz, resistive or inductive load.	cilleu.			
For capacitive load, derate current by 20%.				
Characteristics	Symbol	15SQ045	15SQ060	Unit
Maximum Repetitive Peak Reverse Voltage	Vrrm	45	60	V
Maximum RMS Voltage	Vrms	31.5	42	V
Maximum DC Blocking Voltage	VDC	45	60	V
Maximum Average Forward Rectified Current @Tc=95 $^\circ \!$	l(AV)	,	5	А
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	1	350		
Superimposed on Rated Load (JEDEC Method)	IFSM	3	00	A
Peak Forward Voltage at 15A DC (Note1)	VF	0.7		V
Maximum DC Reverse Current @Tj=25°C		0.5		
	lr	50		mA
at Rated DC Bolcking Voltage @TJ=100℃		450		pF
	CJ	4		pi
at Rated DC Bolcking Voltage @TJ=100°C Typical Junction Capacitance (Note2) Typical Thermal Resistance Junction to Case	CJ Rejc		.5	°C/W
Typical Junction Capacitance (Note2)		3		•

Notes: 1. 300uS pulse width, 2%duty cycle.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

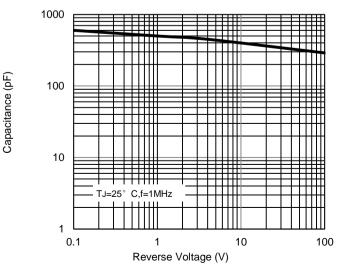
3. The typical data above is for reference only .



Percent of Rated Peak Reverse Voltage (%)



Instantaneous Forward Voltage (V)



The curve above is for reference only.