

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

SPC2040C THRU SPC2045C

TECHNICAL SPECIFICATIONS OF SOLAR CELL PROTECTION SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE - 40 to 45 Volts

CURRENT - 20 Amperes

FEATURES

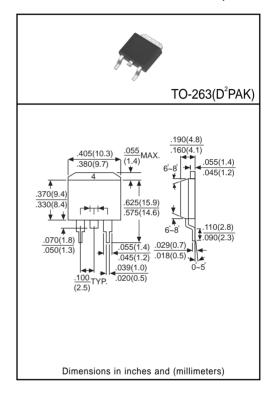
- * Low power loss, high eifficiency
- * High current capability
- * High surge capability
- * High reliability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: MIL-STD-202E, Method 208 guaranteed
- * Mounting position: Any
- * Weight: 1.7 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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



		SYMBOL	SPC2040C	SPC2045C	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	40	45	Volts
Maximum RMS Voltage		VRMS	28	31.5	Volts
Maximum DC Blocking Voltage		VDC	40	45	Volts
Maximum Average Forward Rectified Current at Derating Csae Temperature		lo	20		Amps
Peak Forward Surge Current IFM(surge): 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	150		Amps
Maximum Forward Voltage at 10A DC		VF	0.55		Volts
Maximum DC Reverse Current at	@Tc = 25°C	-	0.5		mAmps
Rated DC Blocking Voltage	@Tc = 100°C	- IR	5	50	
Typical Thermal Resistance (Note 1)		RθJC	1	1.5	
Operating and Storage Temperature Range		TJ, TSTG	-65 to	+150	٥C

Note: 1. Thermal Resistance Junction to Case per leg.

^{2.} Measured at 1 MHz and applied reverse voltage of 4.0 volts.

RATING AND CHARACTERISTIC CURVES (SPC2040C THRU SPC2045C)

